XR-4340

SERVICE MANUAL

E Model

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36SV-32

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output
25 W × 2 (at 4 ohms)
15 W × 4 (at 4 ohms)

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 15,000 Hz
Signal-to-noise ratio

TYPE I	55 dB
TYPE II, III, IV	58 dB

Wow and flutter: 0.15% (WRMS)

Tuner section

System: Superheterodyne tuner computerized quartz-locked synthesizer system
Antenna terminal: External antenna connector

FM

Tuning range: 87.5 – 108.0 MHz
Intermediate frequency
10.7 MHz
Usable sensitivity: 13 dBf (75 ohms)
Selectivity: 70 dB at 400 kHz
Signal-to-noise ratio: 66 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz
0.9% (stereo), 0.5% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

AM

Tuning range: 531 – 1,602 kHz (at 9 kHz step)
530 – 1,620 kHz (at 10 kHz step)
AM tuning interval 9 kHz/ 10 kHz switchable
Intermediate frequency
450 kHz
Sensitivity: 35 µV

General

Tone controls: Bass ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
Output lead: Power antenna relay control lead
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 178 x 50 x 164 mm (w/h/d)
not incl. projecting parts and controls
Mounting dimensions: Approx. 178 x 50 x 145 mm (w/h/d)
not incl. projecting parts and controls
Mass: Approx. 1.2 kg
Accessories supplied: Mounting hardware (1 set)

Design and specifications subject to change without notice.

FM/AM CASSETTE CAR STEREO

SONY®

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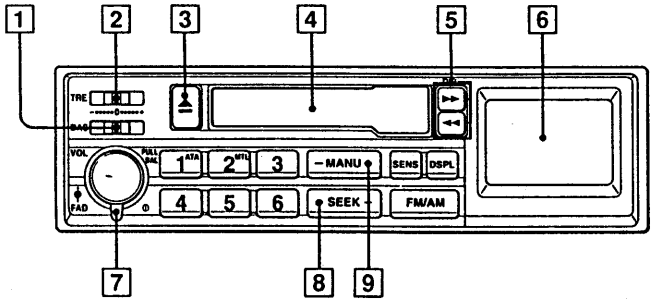
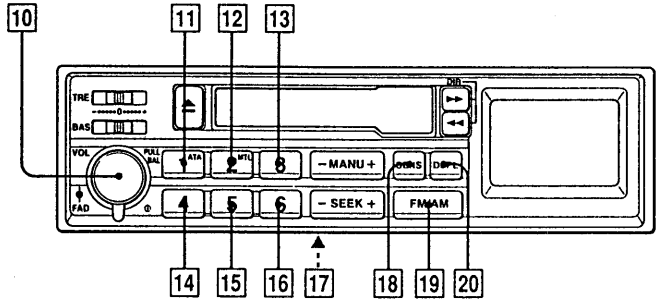
NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Location and Function of Controls





Refer to the pages in ● for details.

1 **BAS (bass) control**
Slide to the right to increase and left to decrease the bass.

2 **TRE (treble) control**
Slide to the right to increase and left to decrease the treble.

3 **⏏ (eject) button**
Press to stop tape playback and eject the cassette.

4 **Cassette insertion door**

5 **◀◀ • ▶▶ (fast winding) buttons/DIR (tape transport direction change) buttons** ❽

6 **Display window**

7 **FAD (fader) control***
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.

8 **SEEK (automatic tuning) button** ❿⓭

9 **MANU (manual tuning) button** ❻⓬⓭

* Adjust the fader level only when the 4-speakers are connected.

10 **POWER (power on • off) switch/PULL BAL (balance)control/VOL (volume) control**

POWER switch	To turn on the unit, turn clockwise until it clicks. To turn off, turn counterclockwise.
PULL BAL control	While pulling the control knob, turn clockwise to decrease the volume of the left speaker(s), and turn counterclockwise to decrease the volume of the right speaker(s).
VOL control	Turn clockwise to increase and counterclockwise to decrease the volume.

	During tape playback	During radio reception
11	**ATA (automatic tuner activation) button** ❾	**Preset number buttons** ⓭⓮
12	**MTL (metal/CrO_2) button** ❾	
13	—	
14	—	
15	—	
16	—	

17 **9K/10K (9 kHz/10 kHz select) switch (located on the bottom of the unit)**
See the description about the 9K/10K switch in the Installation/Connections manual.

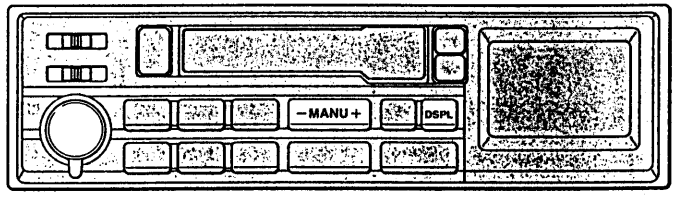
18 **SENS (sensitivity) button** ⓫

19 **FM/AM (band select) button** ❿⓬⓭⓮

20 **DSPL (display change/time set) button** ❻❿

This section is extracted from instruction manual.

Setting the Clock



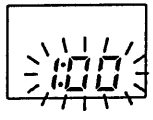
For example: set it to 10:08.

1

Turn clockwise to turn on the unit and press the DSPL button.

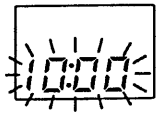
2

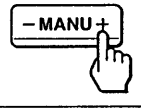
Press the DSPL button for more than two seconds.



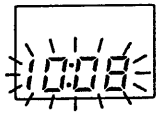
3 **Press to set the time digits while holding down the DSPL button.**

To advance the **hour** digits





To advance the **minute** digits



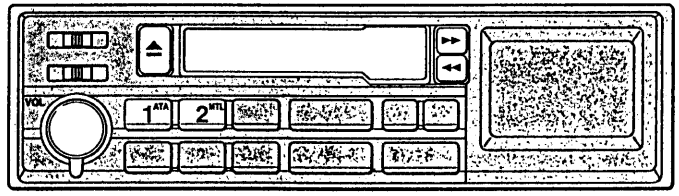
4 **The clock starts activating when you take your finger off the DSPL button.**

When setting the time digits

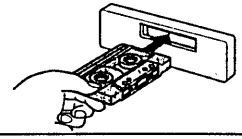
- Minute and hour digits do not go backward.
- "00" comes after "59". The hour digits do not change then.

The clock has a 12 hour digital indication.

Tape Playback



1
Turn on the unit.
Turn clockwise until it clicks.

2 
Insert a cassette.
Playback starts automatically.

3
Adjust the volume.

Other Operations

To wind the tape rapidly

Direction indication	To fast-forward	To rewind
▶		
◀		

To restart playback, press either ⏩ or ⏪, whichever is not being depressed.

To listen to the other side of the cassette

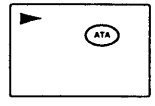
(Press both buttons simultaneously.)

To stop tape playback

The cassette is ejected.

Turning on the Radio Automatically while Fast-winding the Tape (ATA function)

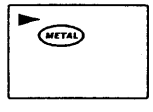
Press the ATA button to get "ATA" indication.



If you press either ◀◀ or ▶▶ button during tape playback, the radio will be turned on automatically. ("ATA" indication will flash.) When the tape playback starts, the radio will be turned off automatically. To cancel the mode, press the ATA button again.

Listening to the CrO2 (TYPE II) or Metal (TYPE IV) Tapes

Press the MTL button to get "METAL" indication.



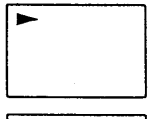
To listen to the normal (TYPE I) tapes, press it again.

Note

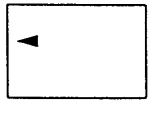
Before turning off the unit, be sure to eject the tape to avoid tape damage.

The clock indication will be displayed on the display window automatically during tape playback.

Tape transport direction indication



The side facing up is being played.



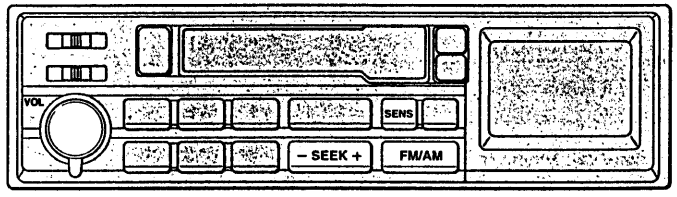
The side facing down is being played.

Selecting the desired station while the radio is turned on using the ATA function

Radio frequency indication will be displayed on the display window while the ATA function is activated. Press the SEEK or MANU button to change the frequency.
Refer to the page 10 or 12 for details.

While the ATA function is activated, you cannot operate the preset number buttons.

Automatic Tuning



1

Turn on the unit.
Turn clockwise until it clicks.

2

Press to select the desired band.
The band changes in the following order:
FMI → FMII → FMIII → AM.

3

For lower frequencies

For higher frequencies

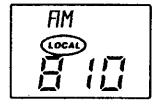
Press the SEEK button.
The scanning stops when a station is received. Press the button repeatedly until the desired station is received.

4

Adjust the volume.

When there are too many stations and the scanning stops too frequently during automatic tuning

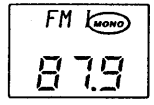
Press the SENS button to get "LOCAL" indication.



Only the stations with relatively strong signals will be tuned in. (It functions only when the Automatic Tuning is in operation.)

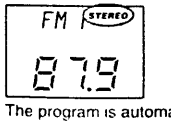
When the FM Stereo Program is Too Weak and Noisy

Press the SENS button to get "MONO" indication.



The sound improves, but it will become monaural instead.

When an FM stereo program of sufficient signal strength is tuned in



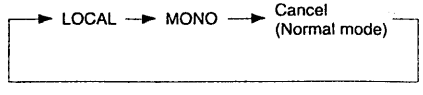
The program is automatically received in stereo.

To get the clock indication during radio reception

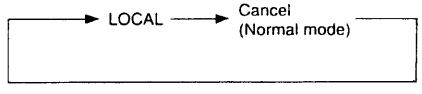
Press the DSPL button. To get the frequency indication again, press the button once more.

Each time you press the SENS button, the display mode changes as follows:

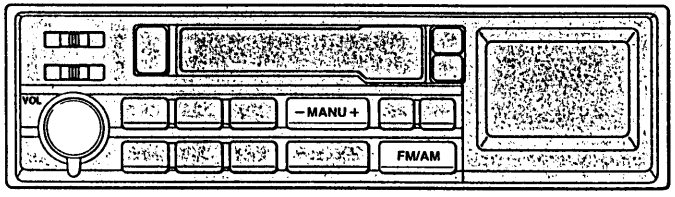
While receiving FM broadcasting



While receiving AM broadcasting



Manual Tuning

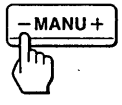


1

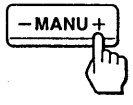
Turn on the unit.
Turn clockwise until it clicks.

2

Press to select the desired band.
The band changes in the following order:
FMI → FMII → FMIII → AM.

3 

For lower frequencies



For higher frequencies

Press the MANU button.

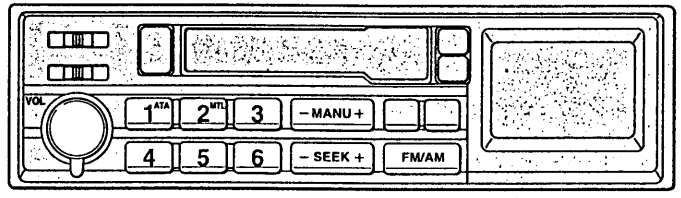
To change the frequency rapidly, keep the button pressed.

4

Adjust the volume.

Warning
While driving, keep your eyes on the road and use the automatic tuning or memory preset tuning!

Memory Preset Tuning



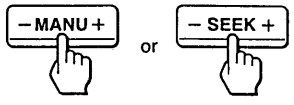
For example: To memorize a station on the preset number button 1.

1

Turn on the unit.
Turn clockwise until it clicks.

2

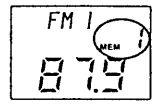
Press to select the desired band.
The band changes in the following order:
FMI → FMII → FMIII → AM.

3 

Press to tune in the desired station.

4

Keep the preset number button pressed until the "MEM" indication comes on the display window.



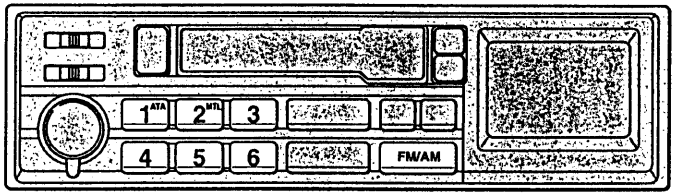
The number of the pressed preset number button will appear to show that the station has been memorized. The "MEM" indication will disappear in a few seconds.

Repeat these steps for each preset number button.

Important
Every preset number button has only one memory location per band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

You can memorize up to 6 stations on each band (FMI, FMII, FMIII and AM) in order of your choice.

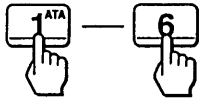
The receivable frequency ranges of the FM bands (FMI, FMII, FMIII) are the same
Therefore, a total of 18 FM stations can be memorized on the preset number buttons.



Receiving the Preset Station

1

Press to select the desired band.

2 

Press the desired preset number button lightly.

Notes

- If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, press the preset number button lightly.
- There may be cases where even the memorized stations cannot be received due to weak signals in the vicinity of your car.

Installation/Installation/Instalación/安装

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subjected to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subjected to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

Précautions

- Choisir soigneusement l'emplacement de montage pour que l'appareil n'interfère pas avec les fonctions normales de conduite du véhicule.
- Eviter d'installer l'appareil en plein soleil, dans un endroit exposé à des températures elevées (appareil de chauffage) à la poussière, à la saleté ou à des vibrations excessives.
- Utiliser uniquement le matériel de montage fourni pour effectuer une installation sûre.

Réglage de l'angle de montage

Choisir un angle de montage inférieur à 20°.

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje

Ajuste el ángulo de montaje a menos de 20°.

安装前须知事项

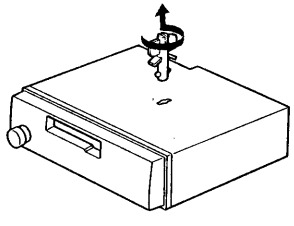
- 安装位置应选在不妨害驾驶者操作之处。
- 不可安装在易受直射阳光照射、暖气排出口等高温之处，或易蒙受灰尘，污秽或震动太大的地方。
- 安装时为保安全起见，请使用附属的安装用工具。

安装角度之调整

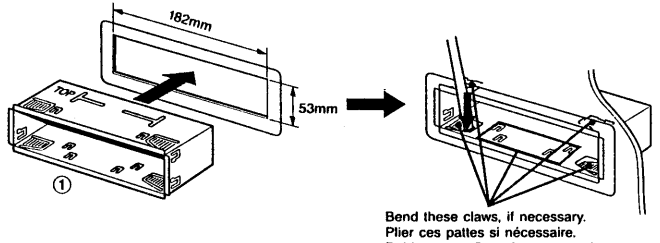
安装角度请不要超过20度。

To Install the Unit in the Dashboard
Installation de l'appareil dans le tableau de bord
Para instalar la unidad en el salpicadero
要安装在汽车仪表板时

1 **Remove the transit lock by turning it 90°.**
Enlever la clé de transport en la tournant à 90°.
Extraiga la llave de transporte girándola 90°.
把固定锁旋转90度，就能取出。

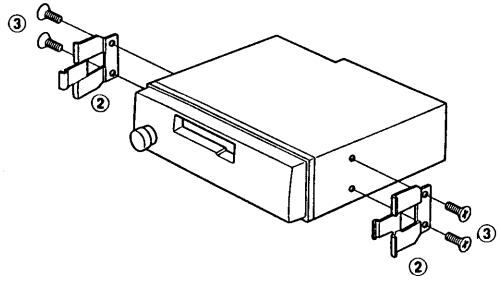


2

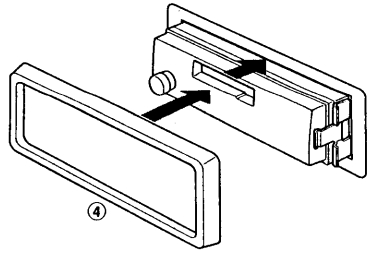


Bend these claws, if necessary.
Plier ces pattes si nécessaire.
Doble estas uñas, si es necesario.
如有必要，折弯这些爪片。

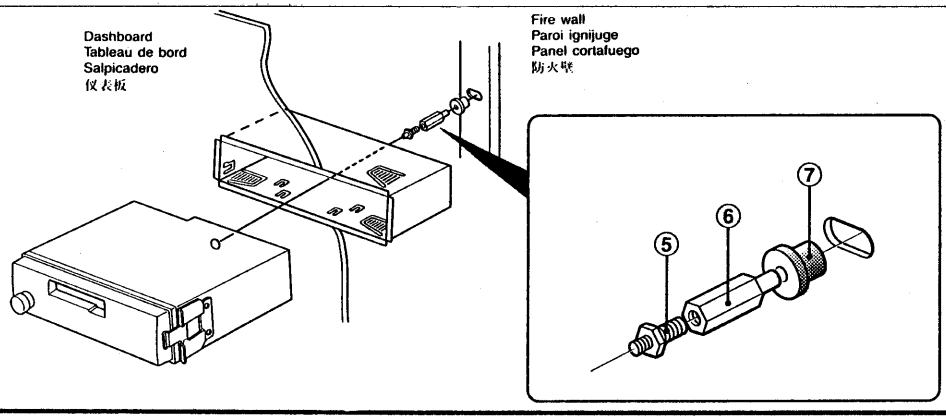
3



4



To Support the Unit
Fixation de l'appareil
Para soportar la unidad
要固定于机板上时



Connections/Connexions/Conexiones/连接

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu uniquement pour un fonctionnement sur courant continu de 12 V avec masse négative.
- Avant d'effectuer les connexions, déconnecter la borne de masse de la batterie de voiture pour éviter un court-circuit.
- Connecter le fil d'alimentation **rouge** uniquement une fois que tous les autres fils ont été connectés. S'assurer de le connecter à la borne positive de 12 V. L'alimentation est fournie lorsque la clé de contact est mise sur la position accessoire.
- **Faire cheminer tous les fils de masse à un point de masse commun.**

Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación **rojo** después de haber conectado los demás. No se olvide de conectarlo al terminal de alimentación de 12 V positivo. Este conductor deberá energizarse al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los terminales de masa a un punto común del automóvil.**

注意

- 本机只可使用负极接地12V直流电。
- 连接以前，请先拔下汽车电池接地端以防短路。
- 所有电线连接完毕以后才可连接**红色**电源线。电源线必须连接到正极12V直流电端子才行。又，当引擎点火插口被转在"辅助"位置时，汽车将处于点火状态，敬请注意。
- **所有的接地线请都接至一共同接地点。**

9K/10K Select Switch

The AM tuning interval is factory-set to 9 kHz. If the frequency allocation system of your country is based on 10 kHz interval, set the selector on the bottom of the unit to 10K before making connections.

Sélecteur 9K/10K

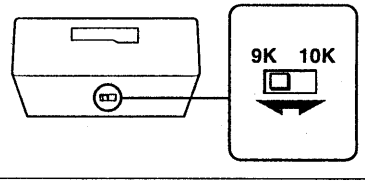
L'intervalle d'accord AM est préréglé en usine sur 9 kHz. Si le système d'allocation de fréquences de votre pays est basé sur 10 kHz, régler le sélecteur situé sur le socle sur 10K avant d'effectuer les connexions.

Selector 9K/10K

El intervalo de AM ha sido preajustado en fábrica a 9 kHz. Si el sistema de asignación de frequencias de su país se basa en el intervalo de 10 kHz, siga estos pasos antes de emplear la unidad.

9K/10K 选择开关

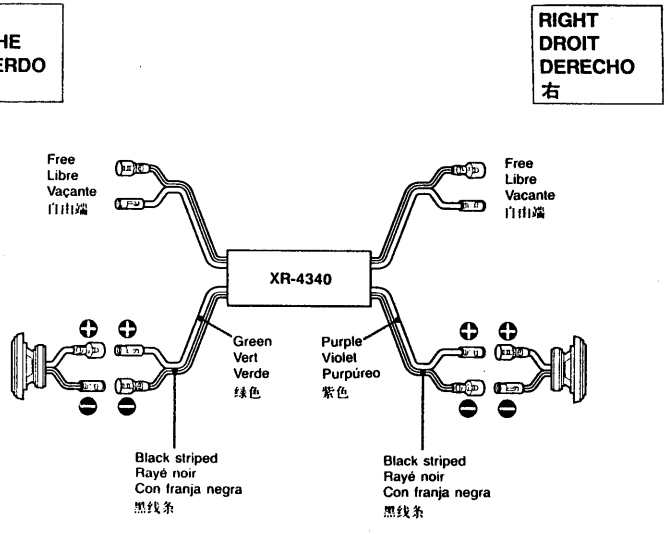
AM 调谐区间已于厂内时被设定于 9kHz 之处。但若贵国的频率配置为 10kHz 区间，请在连接电线以前，先调整机底的选择器。



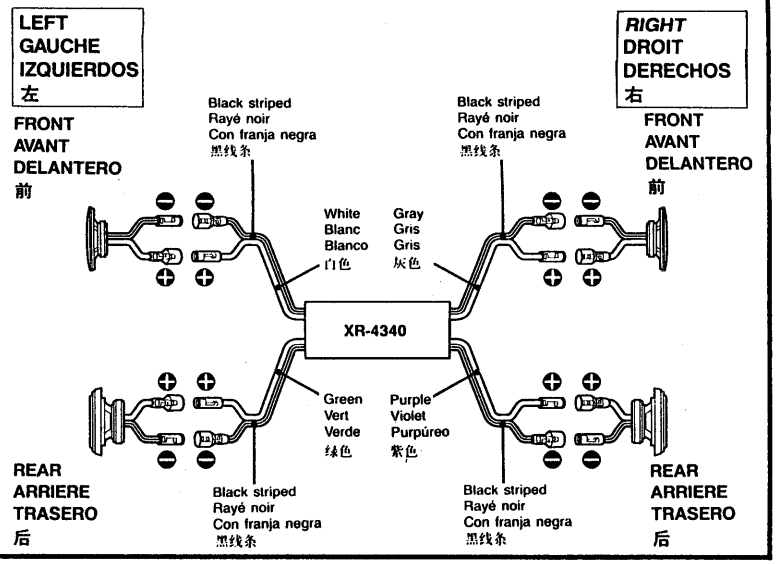
Change the position with a jeweler's screwdriver, etc.
Changer la position avec un petit tournevis ou autre objet similaire.
Cambie la posición con un destornillador de joyero, etc.
以珠宝行用的螺丝起子等调整选择器位置。

Speaker Connection
Connexion des haut-parleurs
Conexión de los altavoces
扬声器之连接

2-speaker connection
Connexion de deux haut-parleurs
Conexión de un sistema de 2 altavoces
连接 2 个扬声器时



4-speaker connection
Connexion de quatre haut-parleurs
Conexión de un sistema de 4 altavoces
连接 4 个扬声器时



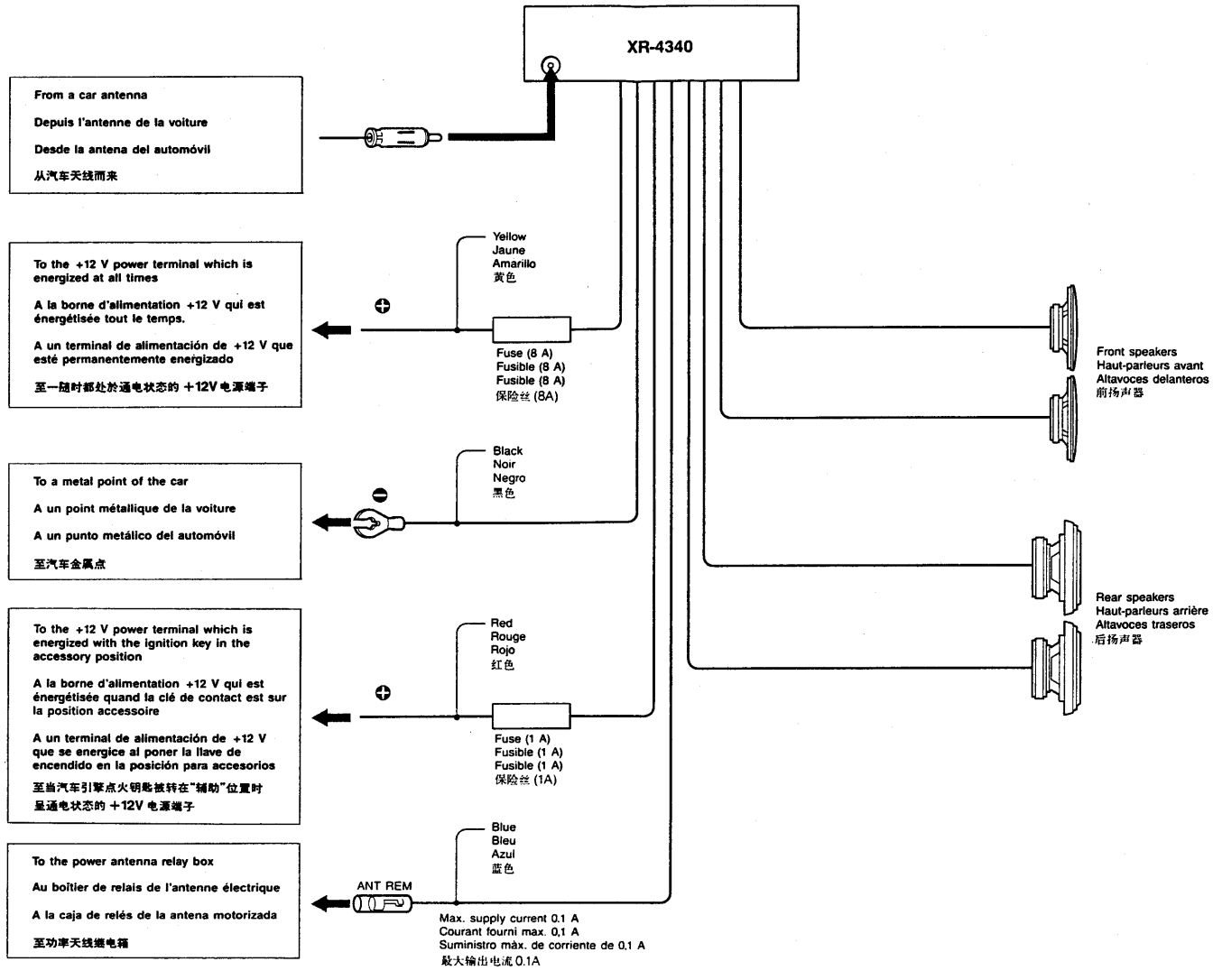
Notes on speaker connection
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.

Remarques sur la connexion des haut-parleurs
- Utiliser des haut-parleurs d'une impédance de 4 à 8 ohms et ayant une puissance nominale adéquate. Dans le cas contraire, les haut-parleurs peuvent être endommagés.
- Ne pas connecter les bornes du système de haut-parleurs au châssis de la voiture et ne pas non plus connecter les bornes des haut-parleurs droits avec celles des haut-parleurs gauches.

Notas sobre la conexión de altavoces
- Emplee un sistema de altavoces de 4 a 8 ohmios de impedancia y con la potencia admisible adecuada. De lo contrario, los altavoces podrían dañarse.
- No conecte los terminales de los altavoces al chasis del automóvil ni conecte los terminales del altavoz derecho a los del izquierdo.

扬声器连接时之注意事项
- 请使用4至8欧姆阻抗，且操作电容适宜的扬声器，否则扬声器容易受损毁。
- 不可把扬声器端子连接到汽车机壳，也不可把右扬声器端子和左扬声器端子相连接。

Connection Diagram
Shéma des connexions
Diagrama de conexiones
连接方块图


XR-4340
From a car antenna
Depuis l'antenne de la voiture
Desde la antena del automóvil
从汽车天线而来
To the +12 V power terminal which is energized at all times
A la borne d'alimentation +12 V qui est énergétisée tout le temps.
A un terminal de alimentación de +12 V que esté permanentemente energizado
至一随时都处於通电状态的 +12V 电源端子
Yellow
Jaune
Amarillo
黄色
Fuse (8 A)
Fusible (8 A)
Fusible (8 A)
保险丝 (8A)
To a metal point of the car
A un point métallique de la voiture
A un punto metálico del automóvil
至汽车金属点
Black
Noir
Negro
黑色
To the +12 V power terminal which is energized with the ignition key in the accessory position
A la borne d'alimentation +12 V qui est énergétisée quand la clé de contact est sur la position accessoire
A un terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios
至当汽车引擎点火钥匙被转在"辅助"位置时显通电状态的 +12V 电源端子
Red
Rouge
Rojo
红色
Fuse (1 A)
Fusible (1 A)
Fusible (1 A)
保险丝 (1A)
To the power antenna relay box
Au boîtier de relais de l'antenne électrique
A la caja de relés de la antena motorizada
至功率天线继电箱
Blue
Bleu
Azul
蓝色
ANT REM
Max. supply current 0.1 A
Courant fourni max. 0,1 A
Suministro màx. de corriente de 0.1 A
最大输出电流 0.1A
Front speakers
Haut-parleurs avant
Altavoces delanteros
前扬声器
Rear speakers
Haut-parleurs arrière
Altavoces traseros
后扬声器

Note on the control leads
A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to its instructions manual.

Remarque sur les fils de contrôle
Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil. Pour plus de détails au sujet de l'antenne électrique, consulter son mode d'emploi.

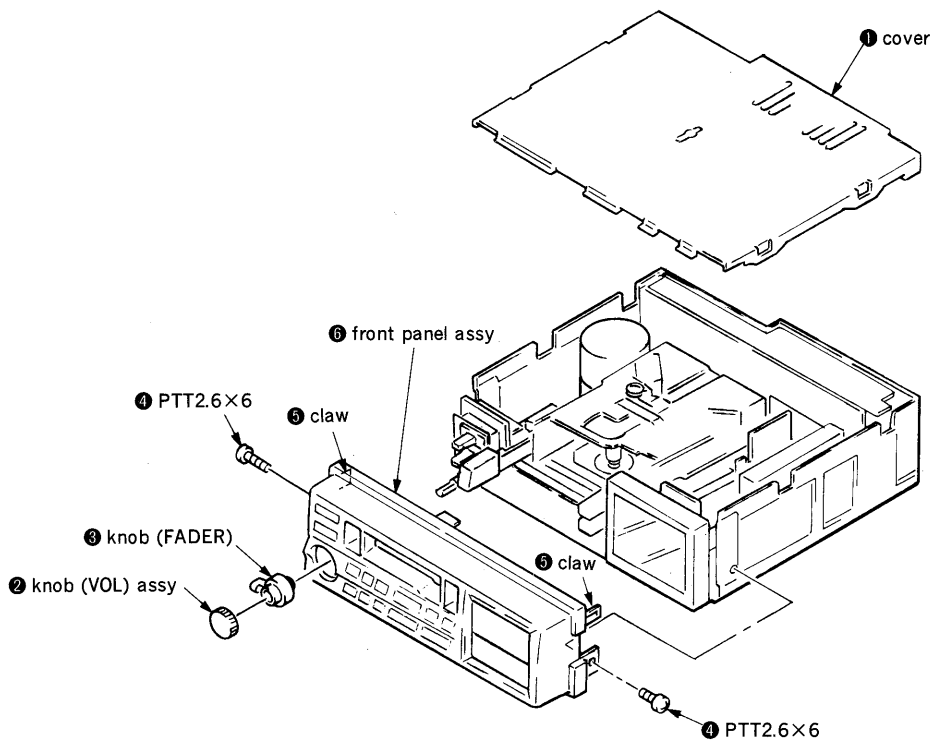
Nota sobre los conductores de control
Con esta unidad no podrá emplearse una antena motorizada sin caja de relés. Con respecto a los detalles sobre la antena motorizada, consulte su manual de instrucciones.

控制导线
本机不能使用没具继电器的功率天线。关於功率天线，详细请参看本机使用说明书。

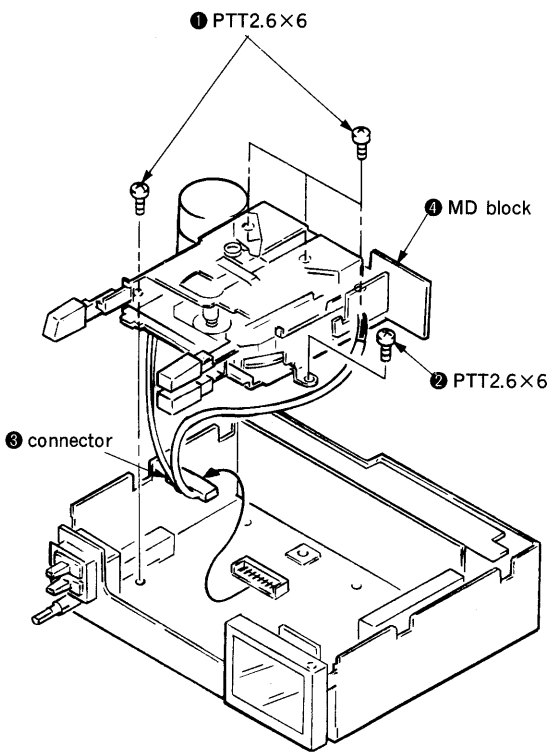
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

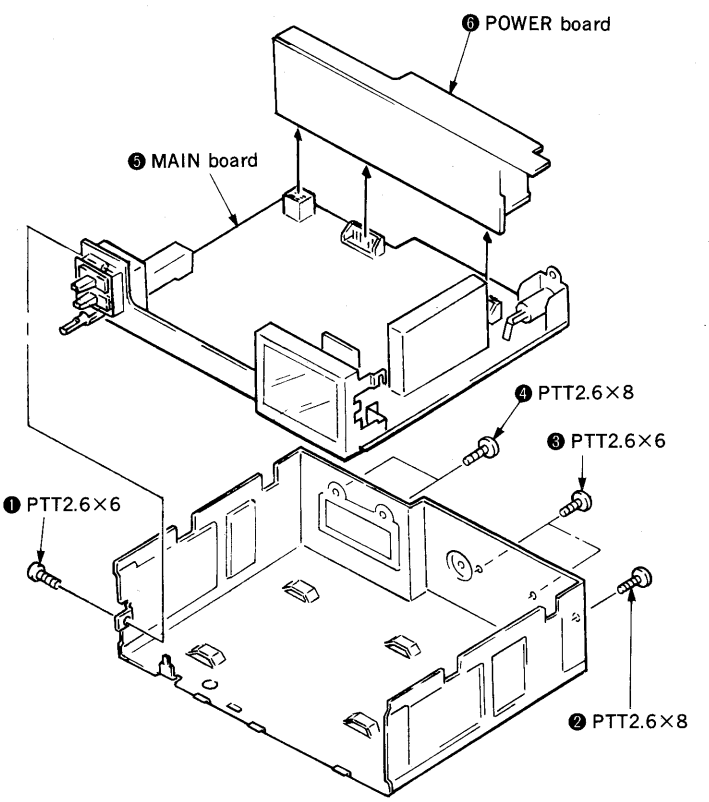
2-1. FRONT PANEL ASSY



2-2. MD BLOCK



2-3. MAIN BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before aejustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	40—75g•cm (0.56—1.04oz•inch)
FWD Back Tension		1—5g•cm (0.01—0.06oz•inch)
REV	CQ-102RC	40—75g•cm (0.56—1.04oz•inch)
REV Back Tension		1—5g•cm (0.01—0.06oz•inch)
FF, REW	CQ-201B	45—150g•cm (0.63—2.08oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustments should be performed in the order given in this service manual.
2. The adjustments should be performed for both L-CH and R-CH.

Test Tape

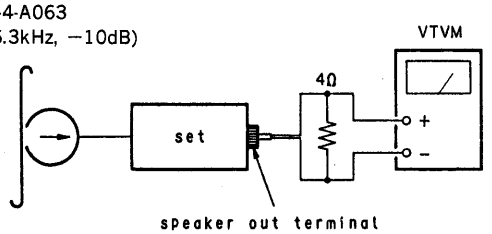
Type	Signal	Used for
P-4-A063	6.3kHz, −10dB	head azimuth adjustment
WS-48A	3kHz, 0dB	tape speed adjustment

PB Head Azimuth Adjustment

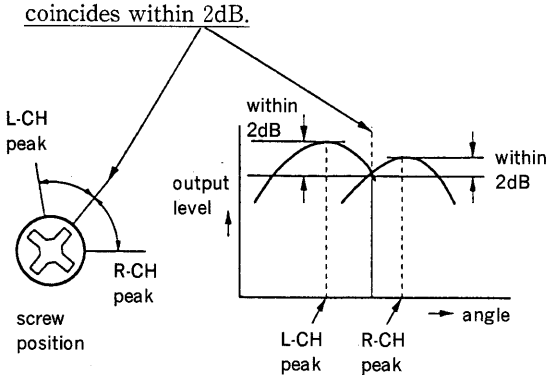
Procedure:

1. Mode: playback

test tape
P-4-A063
(6.3kHz, −10dB)

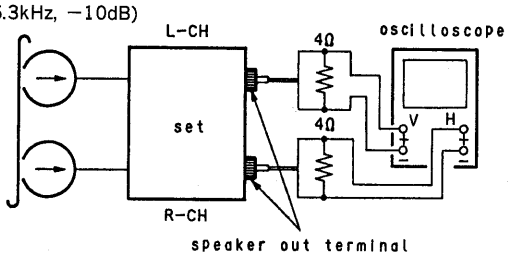


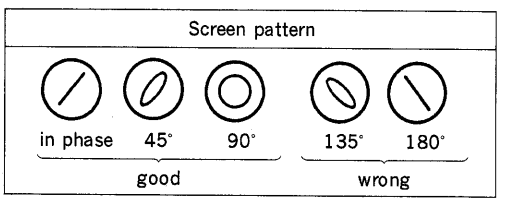
2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.



3. Check the phase in the PB mode.

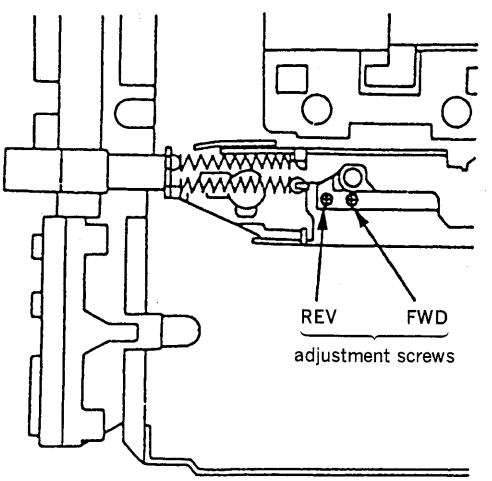
test tape
P-4-A063
(6.3kHz, −10dB)





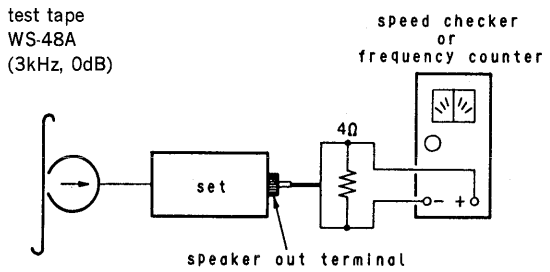
4. Repeat the above adjustment for the PB REV mode.

Adjustment Location:



Tape Speed Adjustment

Setting :



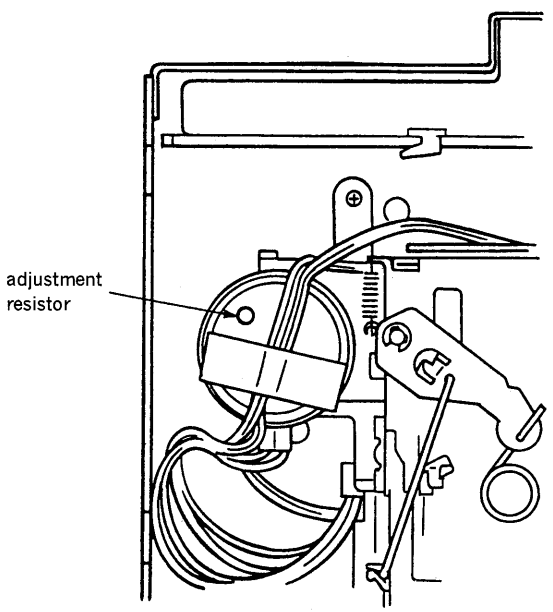
Procedure :

1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification : Constant speed

Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location :



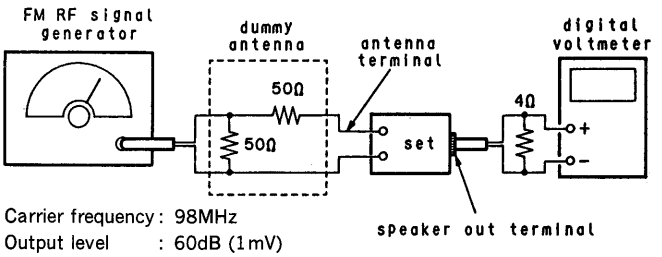
TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

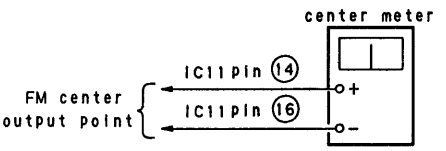
FM Center Adjustment

Setting :

FM/AM switch : FM

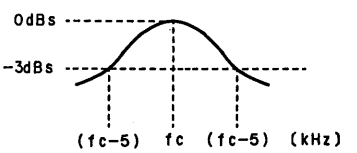


Carrier frequency : 98MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation (100%)



Procedure :

1. Adjust T11 so that the reading on the center meter becomes in 0±20mV.
2. Output an Fcenter 60dB signal output from FM rf signal generator so that the speaker output terminal is 0dBs.
3. Change the FM rf signal generator frequency and check the deviation of the frequency on + side and − side when the speaker output terminal drops 3dB.
4. Re-adjust T11 when the difference deviation of the frequency does more than 5kHz.

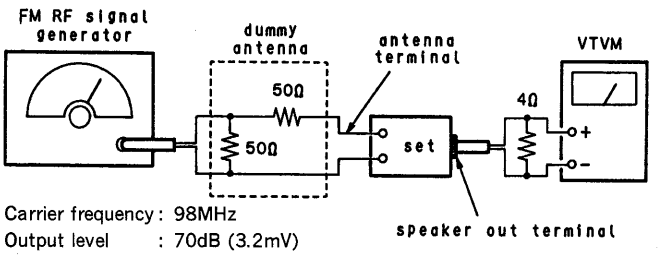


Adjustment Location : main board

FM Stereo Separation Adjustment

Setting :

FM/AM switch : FM



Carrier frequency : 98MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main channel 1kHz, 33.75kHz deviation (45%)
: sub channel 1kHz, 33.75kHz deviation (45%)
: pilot signal 19kHz, 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV1 for minimum reading.

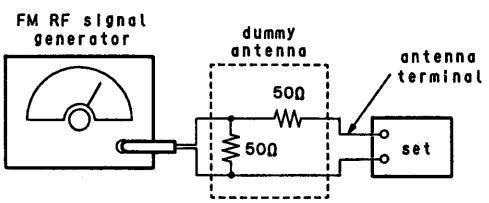
L-CH stereo separation : Ⓐ−Ⓑ
R-CH stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.
Adjust so that separation is maximized.
(separation>27dB)

Adjustment Location : main board

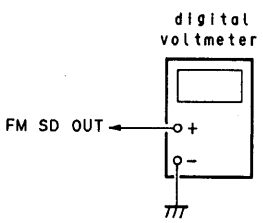
FM Auto Scan Stop Level Adjustment

Setting :

FM/AM switch : FM



Carrier frequency : 98MHz
Output level : 25dB (17.8μV)
Mode : mono
Modulation : 1kHz, no modulation



Procedure :

1. Adjust RV11 so that the reading on the digital voltmeter changes point from minimum to maximum. (approx. 0.6V)
2. Confirm that the set stops auto-scanning with FM rf signal generator output level set at 25±4dB.

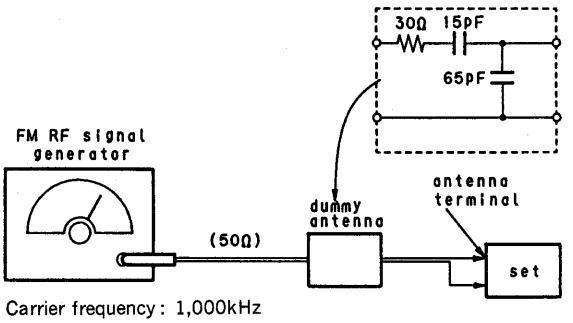
Adjustment Location : main board

AM Auto Scan Stop Level Adjustment

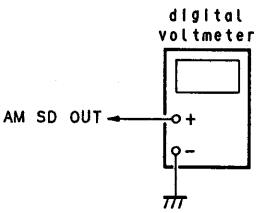
Note) Be sure to perform this adjustment after "FM Auto Scan Stop Level Adjustment".

Setting :

FM/AM switch : AM



Carrier frequency : 1,000kHz
Output level : 30dB (31.6μV)
Modulation : 400Hz, no signal



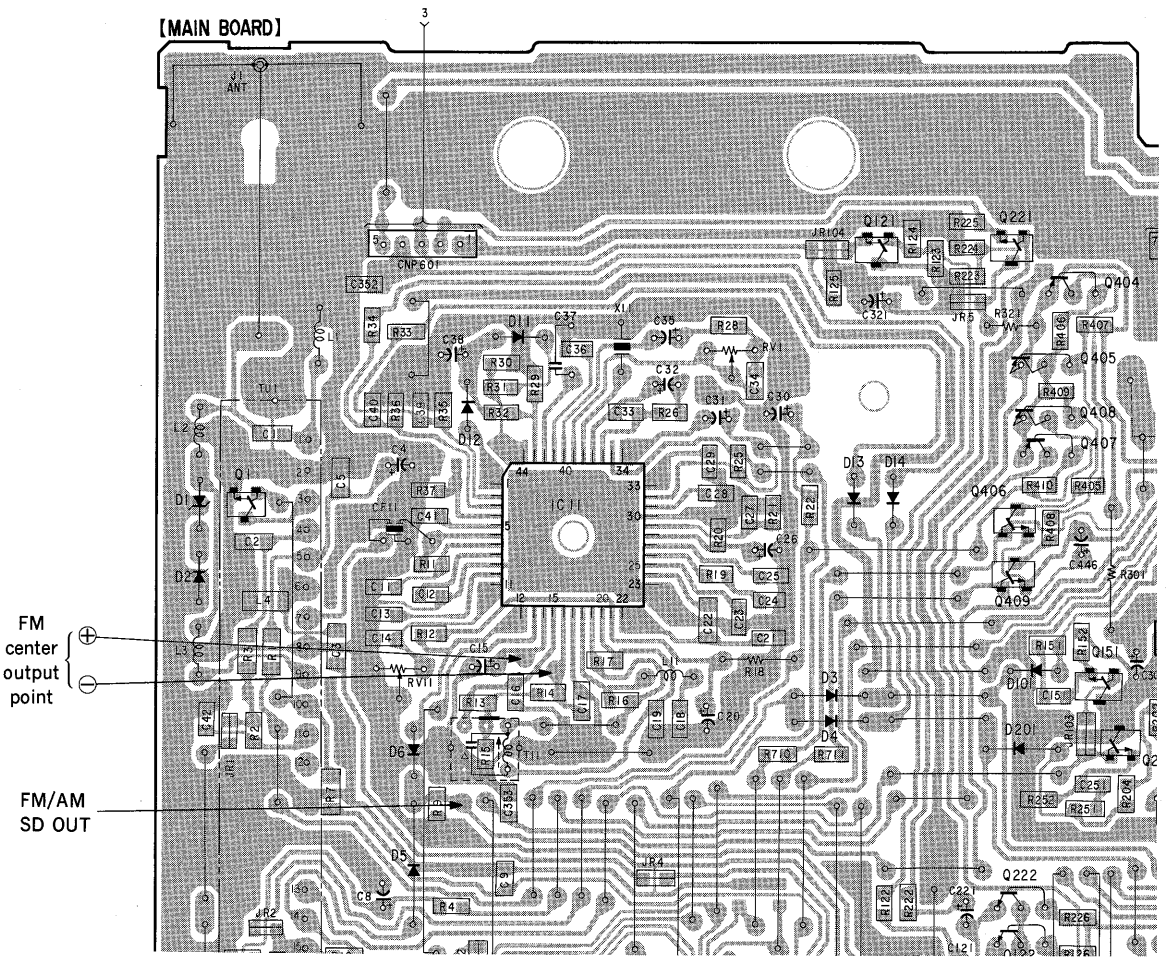
Procedure :

1. Adjust adjustment resistor for inside TU1 (AM tuner unit) so that the reading on the digital voltmeter changes point from minimum to maximum. (approx. 0.6V)
2. Confirm that the set stops auto-scanning with AM rf signal generator output level set at 30±4dB.

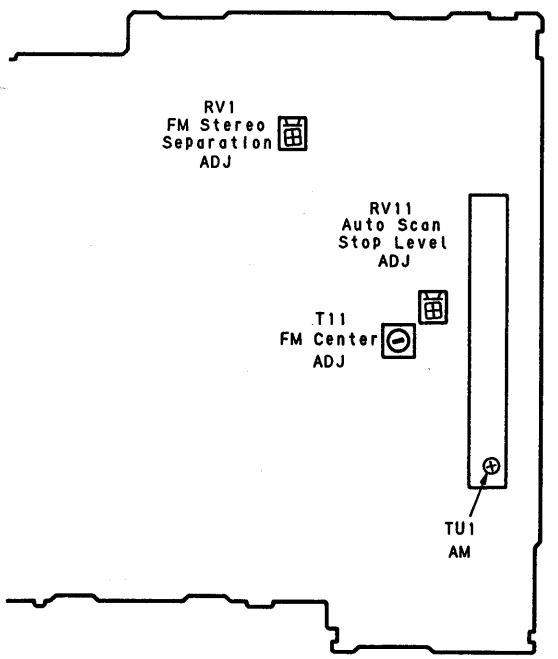
Adjustment Location : main board

Adjustment Location :

—main board (conductor side)—



—Main Board (Component Side)—



SECTION 5
DIAGRAMS

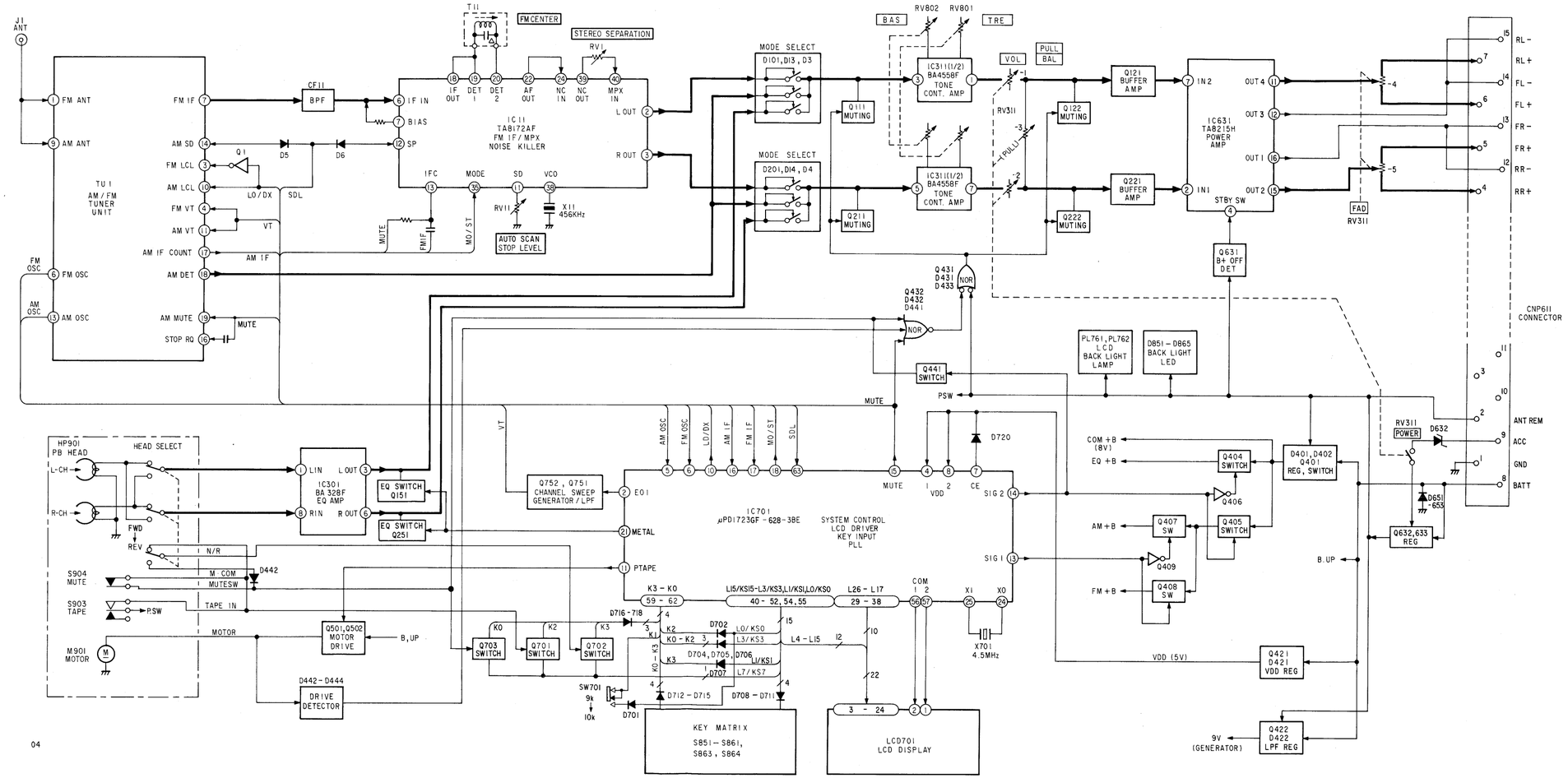
5-1. PIN DESCRIPTION

IC701 μPD1723GF-628-3BE

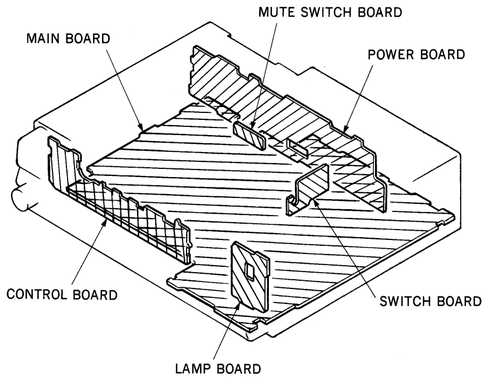
Pin No.	Pin Name	Signal	I/O	Function
1	NC	—	—	Not connected.
2 3	E01 E02	—	O	PLL error output pin.
4	VDD1	—	I	Device power pin.
5	VCOL	AM OSC	I	AM local oscillation input pin.
6	VCOH	FM OSC	I	FM local oscillation input pin.
7	CE	—	I	Device select signal input pin.
8	VDD2	—	I	Device power pin.
9	PD1	SCAN	O	"High" output during seek with TUNER ON.
10	PD2	LOCAL	O	"High" output with LOCAL ON. "Low" output with TUNER OFF.
11	PD3	PTAPE	O	TAPE mechanism deck power output.
12	PC0	SIG0	O	Not used
13 14	PC1 PC2	SIG1 SIG2	O	Signal (source) changeover output. SIG1 / SIG2 0 0 AUX 1 0 TAPE 0 1 AM 1 1 FM
15	PC3	MUTE	O	MUTE output.
16	PA0	AM IF	I	Output for IF count of AM.
17	PA1	FM IF	I	Output for IF count of FM.
18	PA2	$\overline{\text{MONO}}/\overline{\text{ST}}$	O/I	Forced Monaural output and STEREO input. "Low" output unless Forced Monaural is ON (in FM receive mode) and FM is being received. Set in input mode when Forced Monaural is OFF (in FM receive mode). ("Low" input for STEREO display)
19	PA3	LOUD	O	"High" output if LOUD is ON with POWER ON (other than ALL OFF).
20	PB0	$\overline{\text{AMS}}$	O	"Low" output when AMS is ON with TAPE ON. "High" output with TUNER and AUX ON.
21	PB1	METAL	O	"High" output when METAL is ON with TAPE ON. "Low" output with TUNER and AUX ON.
22	PB2	DOLBY	O	"Low" output when DOLBY is ON with TAPE ON. "High" output with TUNER and AUX ON.
23	PB3	POWER	O	"High" output if any of TUNER, TAPE and AUX is ON. "Low" output if all of them are OFF.
24 25	XO XI	—	O I	Crystal oscillator connection pin.
26	GND	—	—	Device grounding pin.
27	CGP	BEEP/COLOR	O	Not used
28 | 39	LCD27 | LCD16	—	O	Pin which outputs the segment signal to LCD panel.
40 | 55	LCD15/KS15 | LCD0/KS0	—	O	Pin which outputs the segment signal to LCD panel. And used in conjection with the key source signal output pin.
56 57	COM1 COM2	—	O	Pin which outputs the comon signal to LCD panel.

Pin No.	Pin Name	Signal	I/O	Function
58	GND	—	—	Device grounding pin.
59 | 62	K3 | K0	—	I	Key return signal input pin.
63	SD	—	I	Electric fiel input pin. Used for SD detection. SD is determined as present if VDD=1.211V or more.
64	$\overline{\text{INT}}$	BU CHECK	I	When CE and BUCHECK are OFF.

5-2. BLOCK DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



5-4. SEMICONDUCTOR LEAD LAYOUTS

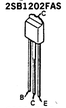
BA328F
BA4558F

(TOP VIEW)

2SA1150-Y
2SA1175-HFE
2SC2785-HFE
letter side

TA8172AF

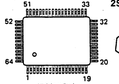
2SB1202FAS



TA8215H

2SC2673-Q

μPD1723GF-628-3BE



(TOPVIEW)

2SD1664-QR

DTC124TK
2SC1623

MTZN-10A
RD18ES-B2
RD5.1ES-B2
RD5.6ES-B2
RD9.1ES-B2
1GWJ42
1SS119
11ES2

2SA881-R

SEL6914A

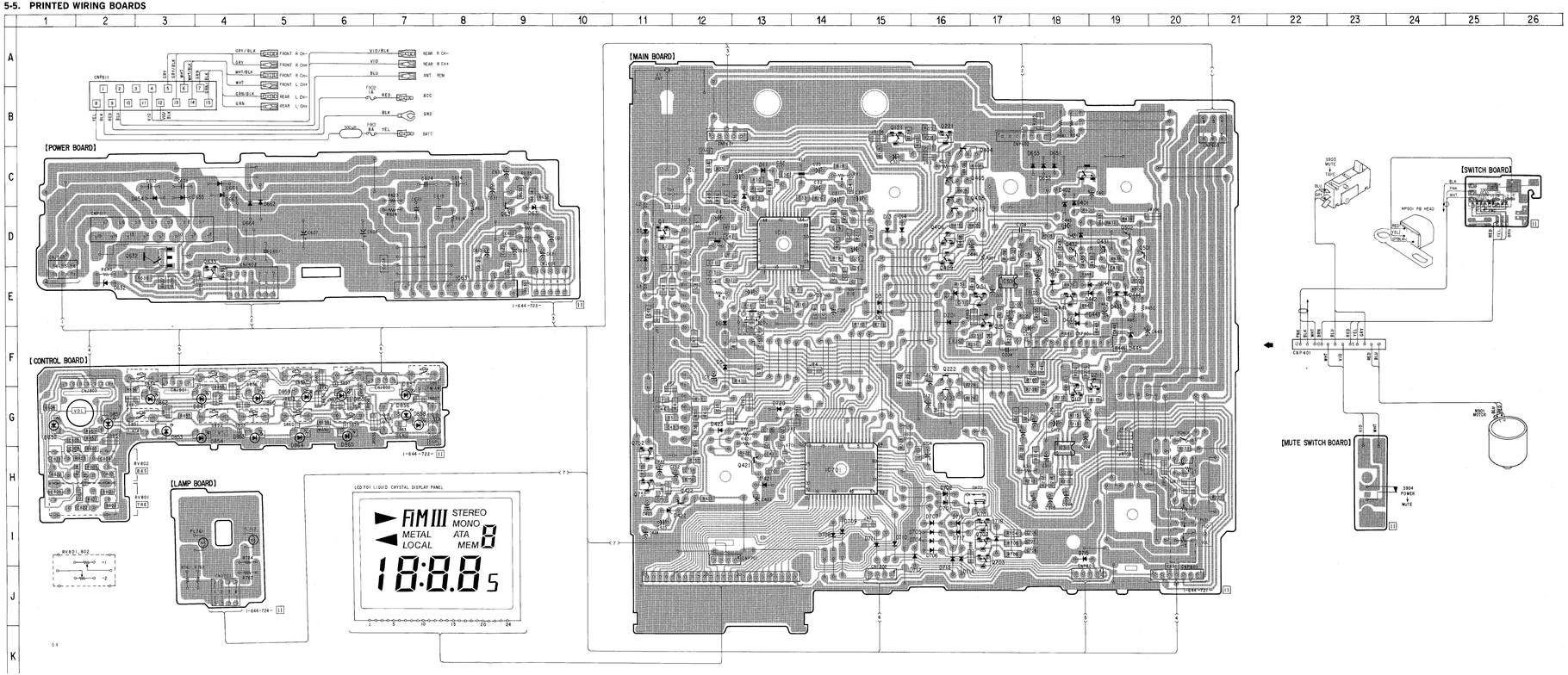
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	D-11	D720	G-13
D2	D-11	D851	G-2
D3	E-15	D852	G-1
D4	E-15	D853	G-3
D5	F-12	D854	G-4
D6	E-12	D855	G-6
D11	C-13	D856	G-7
D12	C-13	D857	G-7
D13	D-15	D858	G-7
D14	D-15	D859	G-5
D101	E-16	D860	G-4
D201	E-16	D861	G-4
D401	C-18	D862	G-3
D402	C-18	D863	G-4
D421	H-13	D864	G-5
D422	I-11	D865	G-6
D423	G-12		
D431	D-18	IC11	D-13
D432	E-18	IC301	E-17
D433	E-19	IC311	H-18
D441	E-18	IC631	E-8
D442	E-18	IC701	H-14
D443	E-18		
D444	E-19	Q1	D-11
D445	F-19	Q111	G-18
D446	E-18	Q121	B-15
D631	D-9	Q122	G-16
D632	E-2	Q151	E-17
D651	C-18	Q211	F-19
D652	C-18	Q221	B-16
D653	C-18	Q222	F-16
D654	C-3	Q251	E-17
D655	C-3	Q401	C-18
D661	C-4	Q404	C-16
D662	C-5	Q405	C-16
D663	C-4	Q406	D-16
D664	C-4	Q407	D-16
D701	H-16	Q408	C-16
D702	H-16	Q409	D-16
D704	I-16	Q421	H-13
D705	I-16	Q422	H-12
D706	I-16	Q431	D-19
D707	I-16	Q432	D-18
D708	I-14	Q441	E-18
D709	I-14	Q501	D-19
D710	I-15	Q502	D-19
D711	I-15	Q631	C-9
D712	I-16	Q632	D-3
D713	I-16	Q633	E-4
D714	I-16	Q701	I-17
D715	I-16	Q702	I-17
D716	I-16	Q703	I-17
D717	I-16	Q751	H-11
D718	I-17	Q752	H-11

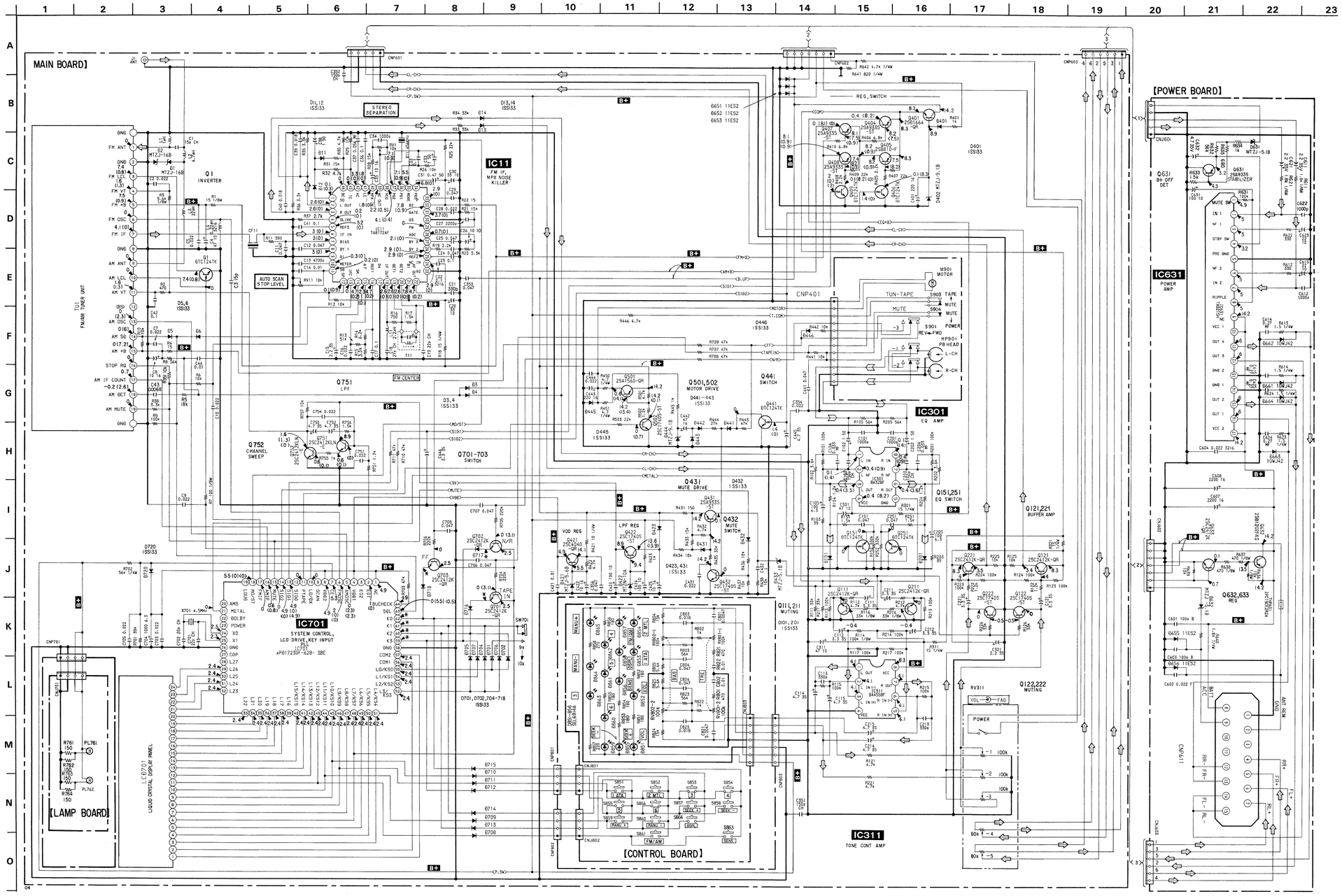
Note:

• ○—— : parts extracted from the component side.

5-5. PRINTED WIRING BOARDS



5-6. SCHEMATIC DIAGRAM • Refer to page 32 for IC Block Diagrams.

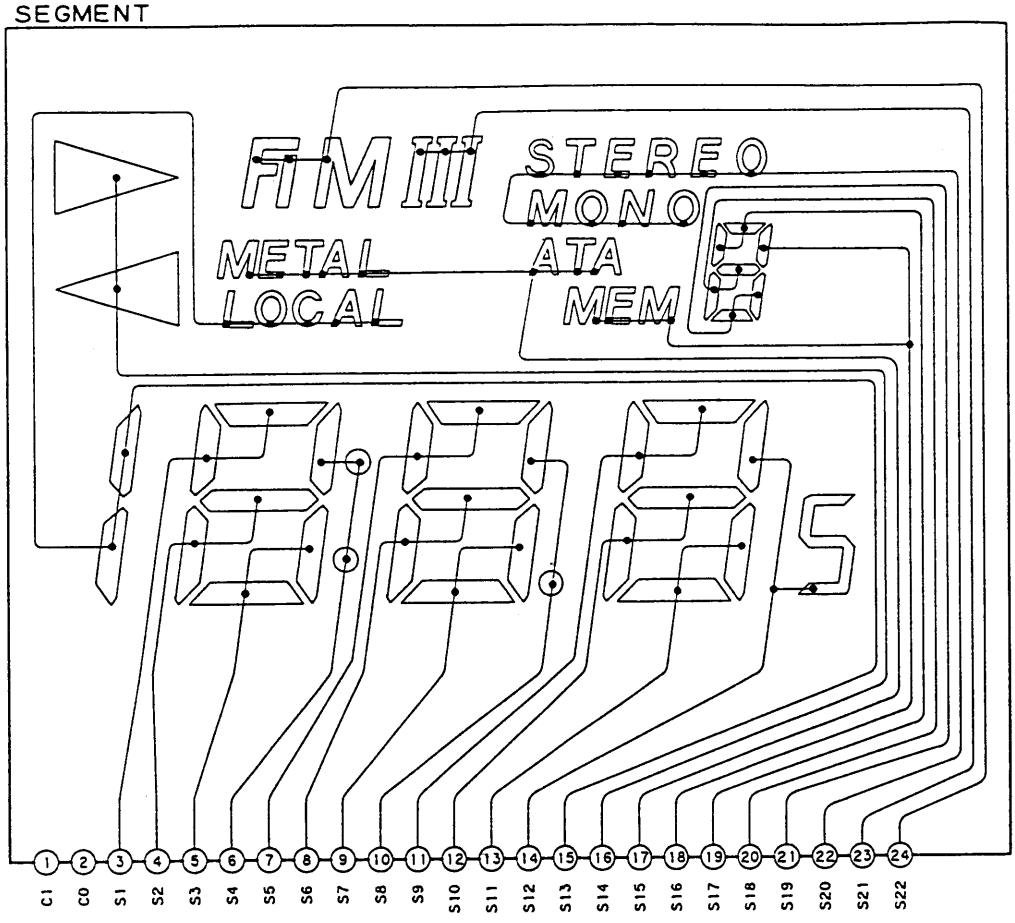


Note:

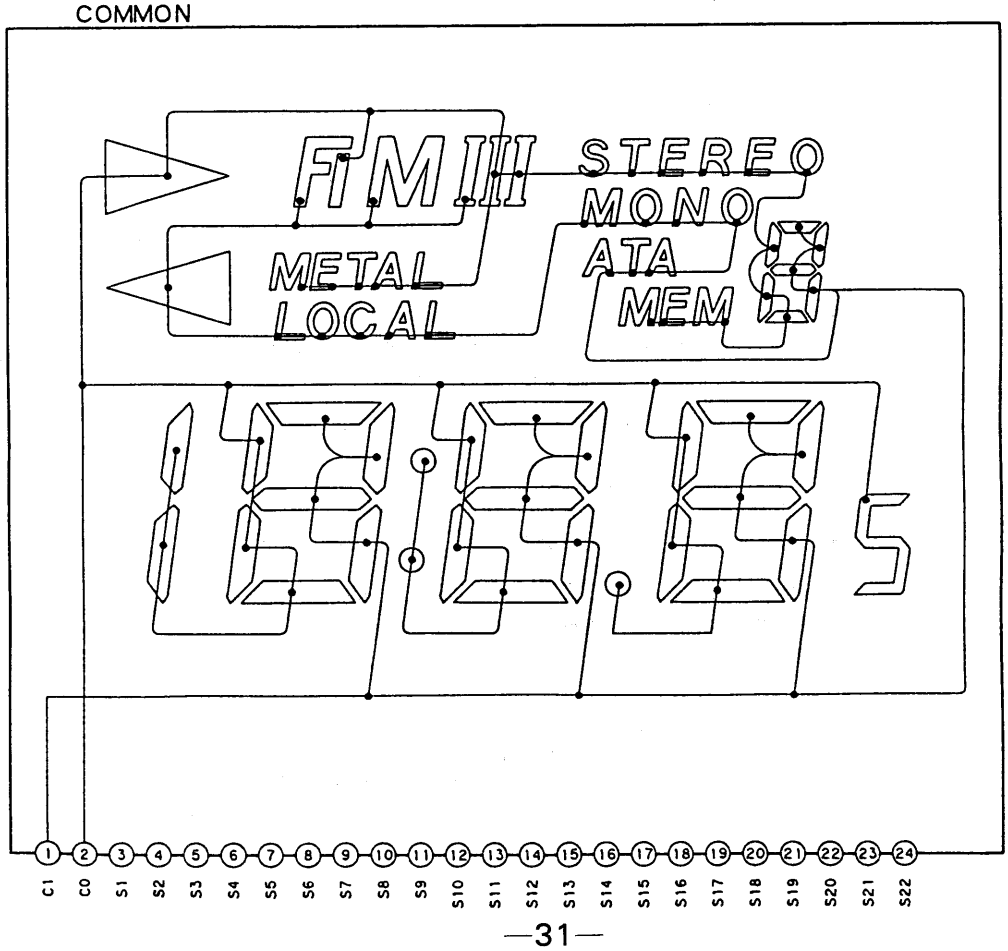
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- □ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
  < >: PLAY
  ⊠ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

5-7. LIQUID CRYSTAL DISPLAY PANEL

SEGMENT

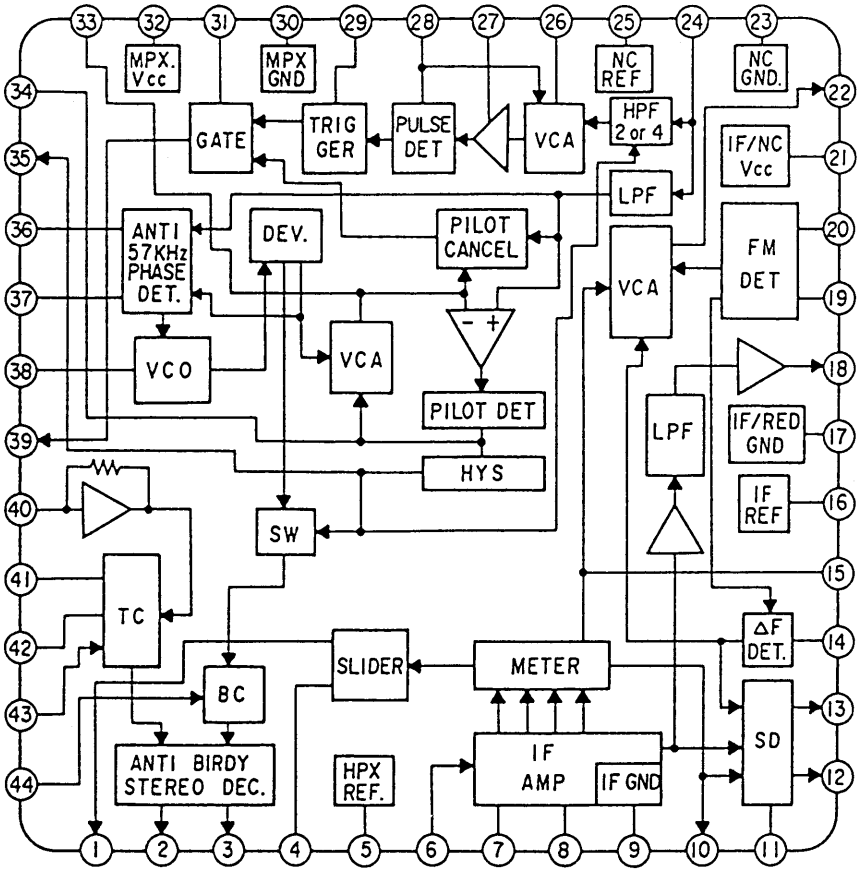


COMMON

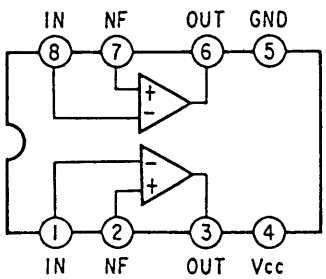


• IC Block Diagrams

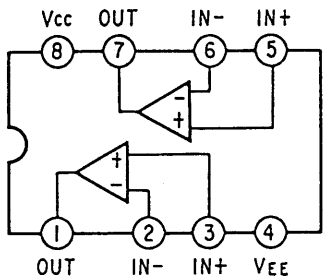
IC11 TA8172AF



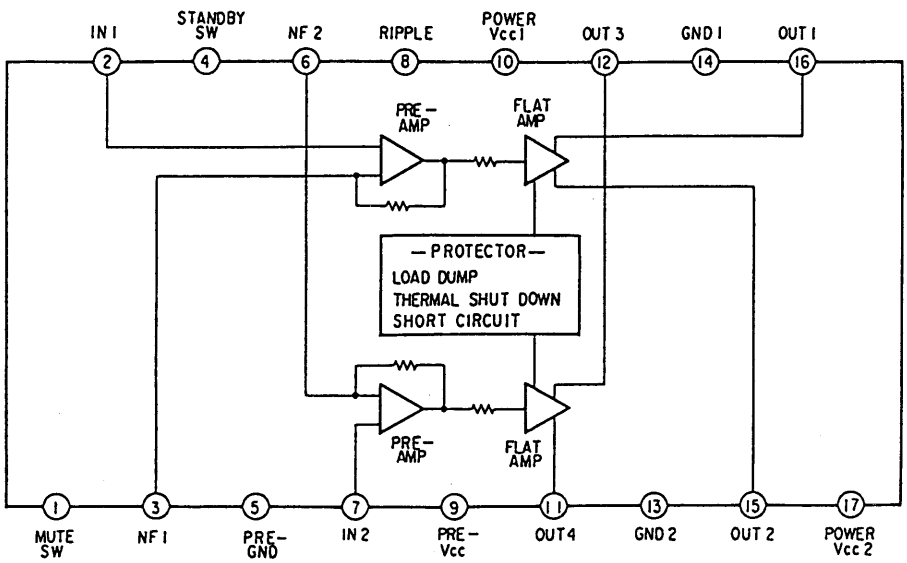
IC301 BA328F



IC311 BA4558F



IC631 TA8215H

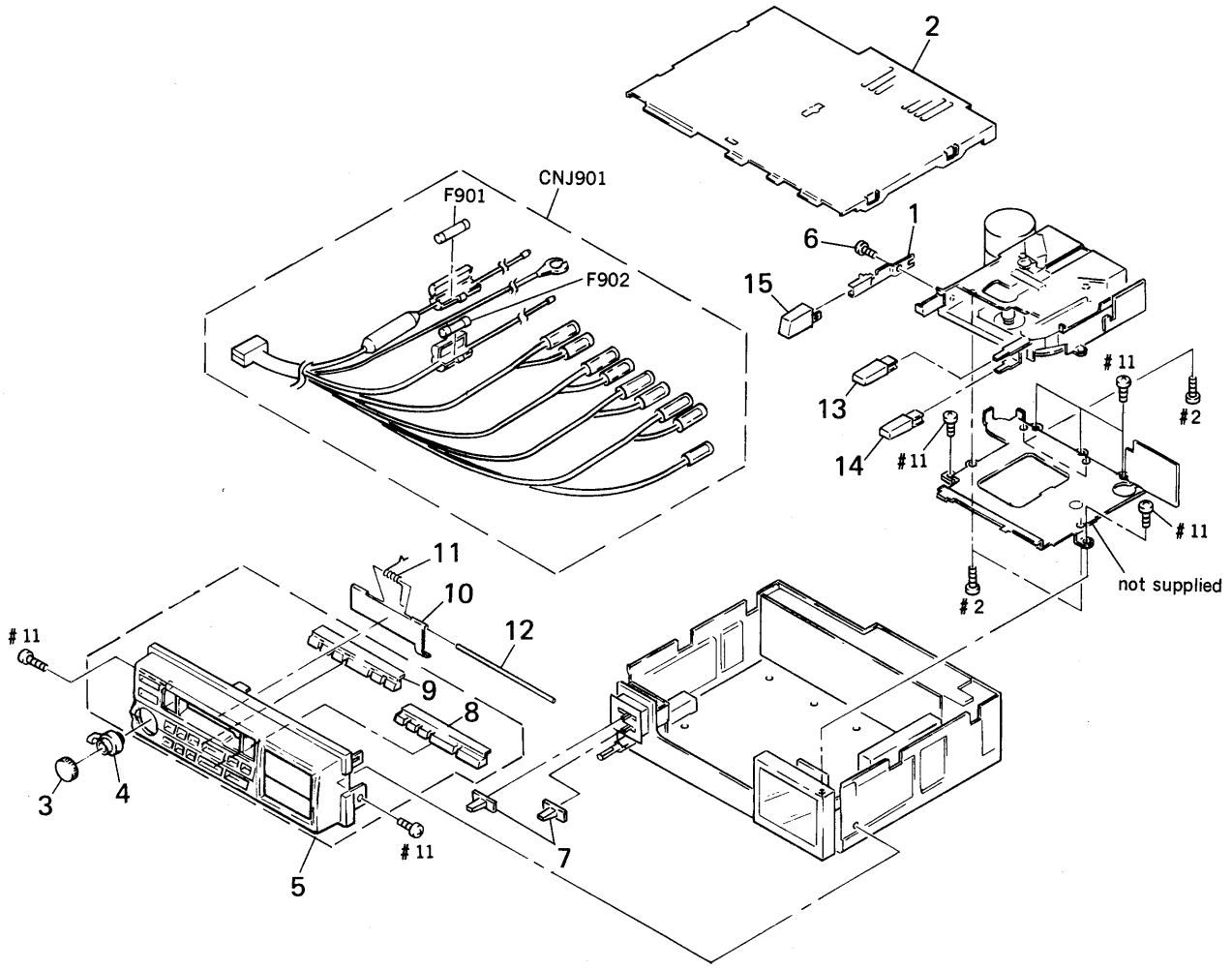


SECTION 6
EXPLODED VIEWS

NOTE:

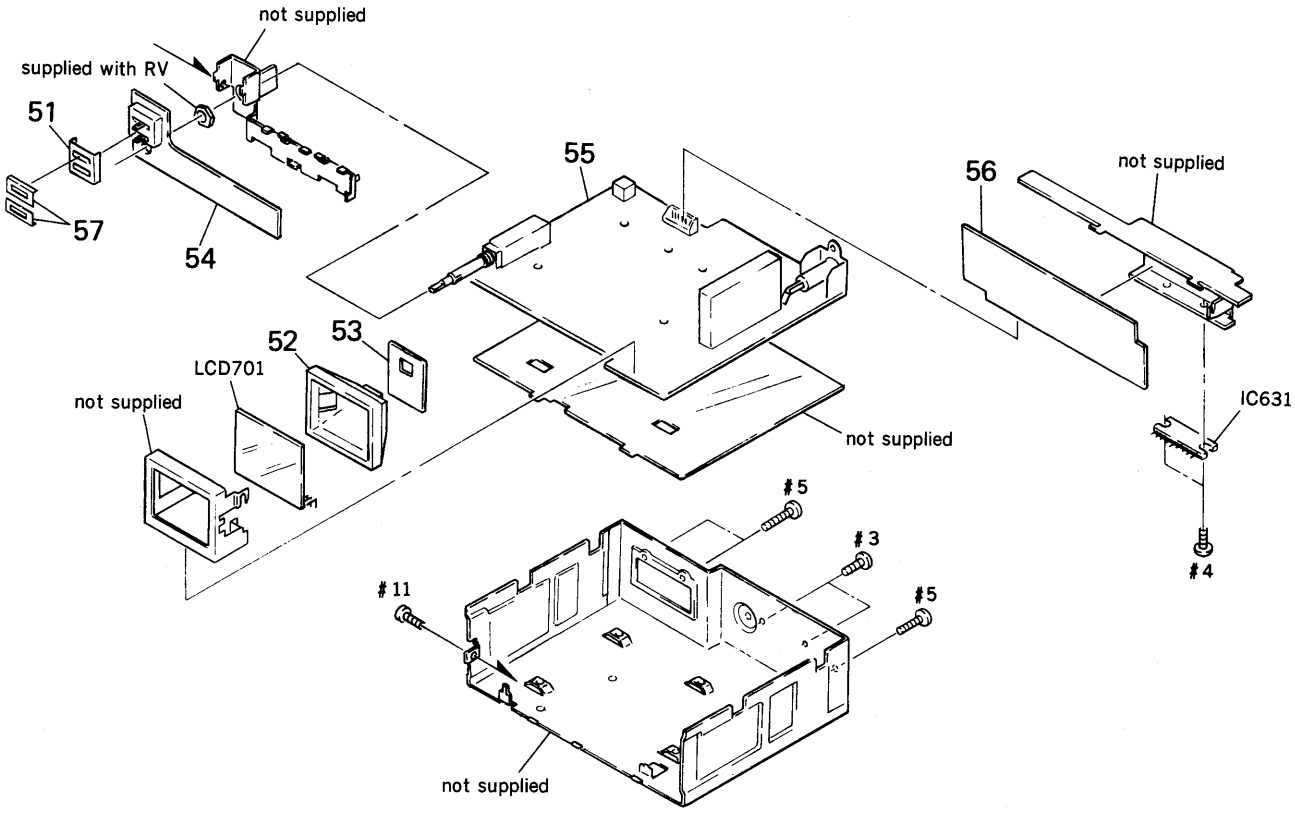
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

6-1. FRONT PANEL SECTION



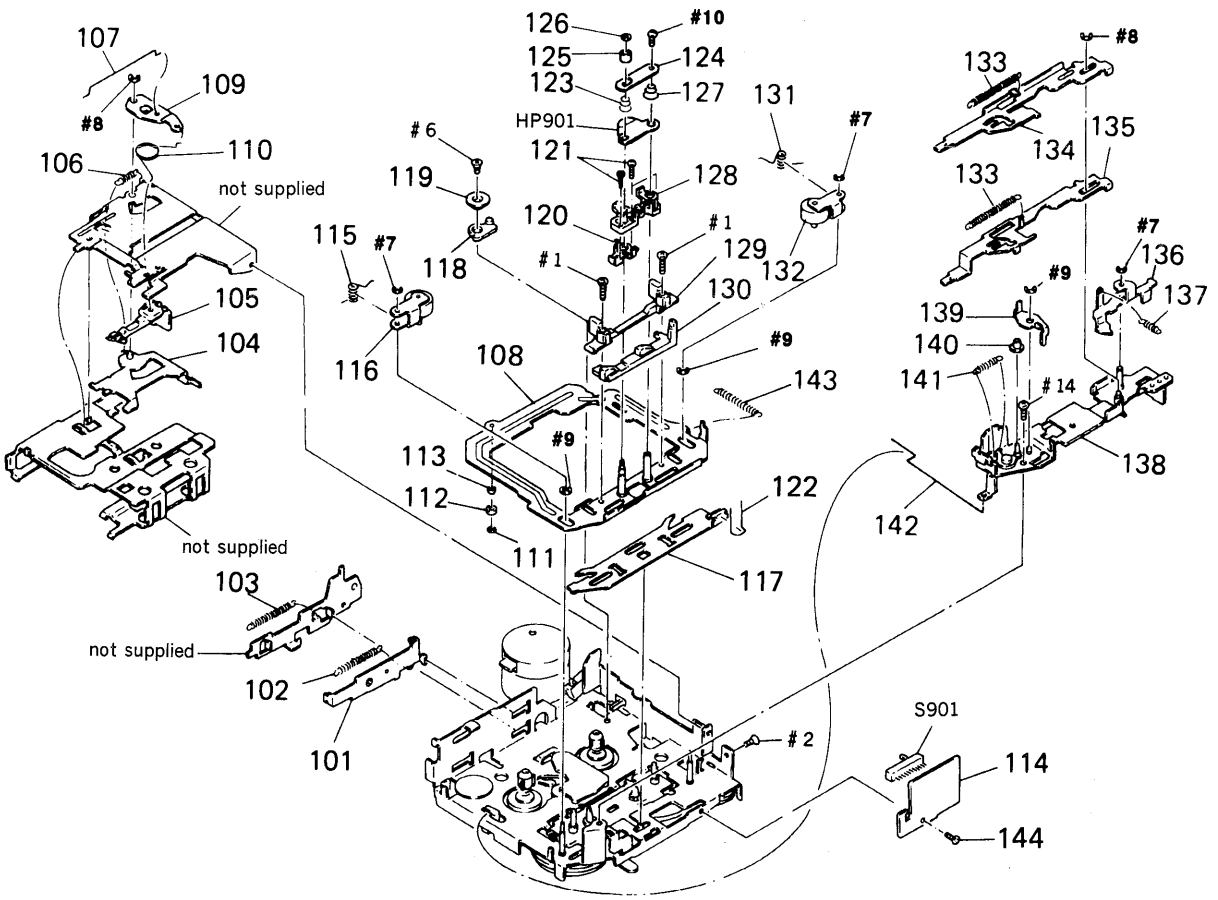
Ref. No.	Part No.	Description	Remark
* 1	3-348-070-01	LEVER (EJECT)	
* 2	3-375-405-11	COVER	
3	X-3362-120-1	KNOB (VOL) ASSY	
4	3-348-079-01	KNOB (FADER)	
5	X-3365-462-1	PANEL SUB ASSY, FRONT	
6	3-372-033-11	SCREW (2.6X3), +P	
7	3-375-398-01	KNOB (B/T)	
8	3-375-395-01	BUTTON (B)	
9	3-375-394-11	BUTTON (A)	
10	3-375-413-41	LID, CASSETTE	
11	3-368-754-01	SPRING, TORSION	
12	3-350-709-01	SHAFT (CASSETTE)	
13	3-375-400-01	BUTTON (FF)	
14	3-375-401-01	BUTTON (REW)	
15	3-375-399-01	BUTTON (EJECT)	
CNJ901	1-696-375-11	CORD (WITH CONNECTOR)	
F901	1-532-508-11	FUSE (8A)	
F902	1-532-360-XX	FUSE (1A)	

6-2. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	3-379-343-01	SHEET (SLIDE A)	
* 52	3-381-994-01	COVER (LAMP)	
* 53	A-3295-165-A	LAMP BOARD, COMPLETE	
* 54	A-3295-164-A	CONTROL BOARD, COMPLETE	
* 55	A-3295-163-A	MAIN BOARD, COMPLETE	
* 56	A-3295-160-A	POWER BOARD, COMPLETE	
57	3-379-344-01	SHEET (SLIDE B)	
IC631	8-759-243-27	IC TA8215H	
LCD701	1-809-758-11	DISPLAY PANEL, LIQUID CRYSTAL	

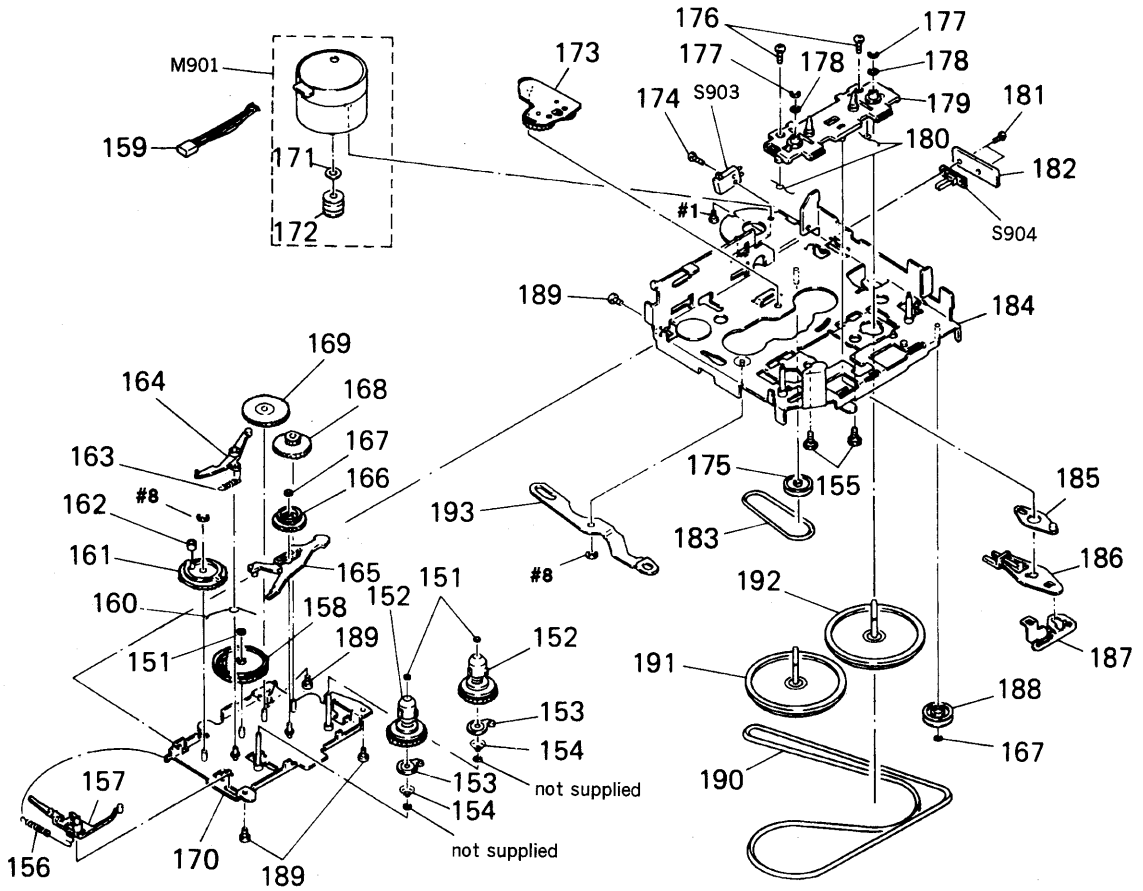
6-3. MECHANISM DECK SECTION (1) (MG-36SV-32)



Ref. No.	Part No.	Description	Remark
* 101	3-392-978-01	LEVER, EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
* 108	3-392-975-02	PLATE ASSY, HEAD	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
* 117	3-392-919-01	ARM ASSY, F, R SELECTION	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
122	3-392-962-01	SPRING	
123	3-392-956-01	SPRING (A)	

Ref. No.	Part No.	Description	Remark
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
127	3-392-955-01	SPRING (A)	
* 128	3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-02	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-392-991-01	LEVER (Z), FF	
* 135	3-392-992-01	LEVER (Z), REW	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
* 144	4-908-792-11	SCREW (B2X3), TAPPING, P1	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE (REV/FWD)	

6-4. MECHANISM DECK SECTION (2) (MG-36SV-32)



Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
* 159	3-176-195-01	CONNECTOR ASSY (3P)	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 170	3-392-976-01	BASE ASSY, REEL	
* 171	3-392-912-01	WASHER, MYLAR	
* 172	3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
175	3-392-938-01	GEAR, PULLY	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE (PWB)	
183	3-375-375-01	BELT (C), SUB	
* 184	3-392-974-01	CHASSIS ASSY, MAIN	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
* 189	4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
* 193	3-392-979-01	LEVER, REVERSE	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF (TAPE/MUTE)	
S904	1-554-790-21	SWITCH, POWER (POWER/MUTE)	

SECTION 7
ELECTRICAL PARTS LIST

CONTROL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3295-164-A	CONTROL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C802	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C803	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C804	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C821	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C822	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C823	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C824	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
		< CONNECTOR >			
* CNJ801	1-568-450-11	HOUSING, CONNECTOR(PC BOARD) 4P			
* CNJ802	1-568-450-11	HOUSING, CONNECTOR(PC BOARD) 4P			
* CNJ803	1-566-969-11	HOUSING, CONNECTOR(PC BOARD) 7P			
		< DIODE >			
D851	8-719-025-98	DIODE SEL6914A (VOL)			
D852	8-719-025-98	DIODE SEL6914A (VOL)			
D853	8-719-025-98	DIODE SEL6914A (1 ATA)			
D854	8-719-025-98	DIODE SEL6914A (2 MTL)			
D855	8-719-025-98	DIODE SEL6914A (SEEK +)			
D856	8-719-025-98	DIODE SEL6914A (SENS)			
D857	8-719-025-98	DIODE SEL6914A (FM/AM)			
D858	8-719-025-98	DIODE SEL6914A (DISPL)			
D859	8-719-025-98	DIODE SEL6914A (SEEK -)			
D860	8-719-025-98	DIODE SEL6914A (6)			
D861	8-719-025-98	DIODE SEL6914A (5)			
D862	8-719-025-98	DIODE SEL6914A (4)			
D863	8-719-025-98	DIODE SEL6914A (3)			
D864	8-719-025-98	DIODE SEL6914A (MANU -)			
D865	8-719-025-98	DIODE SEL6914A (MANU +)			
		< JUMPER RESISTOR >			
JR801	1-216-295-00	METAL CHIP	0	5%	1/10W
JR802	1-216-295-00	METAL CHIP	0	5%	1/10W
JR803	1-216-295-00	METAL CHIP	0	5%	1/10W
JR804	1-216-295-00	METAL CHIP	0	5%	1/10W
JR805	1-216-295-00	METAL CHIP	0	5%	1/10W
JR806	1-216-295-00	METAL CHIP	0	5%	1/10W
JR807	1-216-295-00	METAL CHIP	0	5%	1/10W
JR851	1-216-296-00	METAL CHIP	0	5%	1/8W
JR852	1-216-296-00	METAL CHIP	0	5%	1/8W
JR853	1-216-296-00	METAL CHIP	0	5%	1/8W
JR854	1-216-296-00	METAL CHIP	0	5%	1/8W
JR855	1-216-296-00	METAL CHIP	0	5%	1/8W
JR856	1-216-296-00	METAL CHIP	0	5%	1/8W
		< RESISTOR >			
R801	1-216-041-00	METAL CHIP	470	5%	1/10W
R802	1-216-049-00	METAL CHIP	1K	5%	1/10W
R803	1-216-091-00	METAL CHIP	56K	5%	1/10W
R804	1-216-077-00	METAL CHIP	15K	5%	1/10W
R805	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R821	1-216-041-00	METAL CHIP	470	5%	1/10W
R822	1-216-049-00	METAL CHIP	1K	5%	1/10W
R823	1-216-091-00	METAL CHIP	56K	5%	1/10W
R824	1-216-077-00	METAL CHIP	15K	5%	1/10W
R825	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R851	1-216-031-00	METAL CHIP	180	5%	1/10W
R852	1-216-031-00	METAL CHIP	180	5%	1/10W
R853	1-216-031-00	METAL CHIP	180	5%	1/10W
R854	1-216-031-00	METAL CHIP	180	5%	1/10W
R855	1-216-031-00	METAL CHIP	180	5%	1/10W
R856	1-216-031-00	METAL CHIP	180	5%	1/10W
R857	1-216-033-00	METAL CHIP	220	5%	1/10W
R858	1-216-035-00	METAL CHIP	270	5%	1/10W
		< VARIABLE RESISTOR >			
RV801	1-241-800-11	RES, VAR, SLIDE 100K/100K (TRE)			
RV802	1-241-800-11	RES, VAR, SLIDE 100K/100K (BAS)			
		< SWITCH >			
S851	1-554-813-41	SWITCH, KEY BOARD (1 ATA)			
S852	1-554-813-41	SWITCH, KEY BOARD (2 MTL)			
S853	1-554-813-41	SWITCH, KEY BOARD (3)			
S854	1-554-813-41	SWITCH, KEY BOARD (4)			
S855	1-554-813-41	SWITCH, KEY BOARD (5)			

CONTROL LAMP MAIN

Ref. No.	Part No.	Description				Remark
S856	1-554-813-41	SWITCH, KEY BOARD (6)				
S857	1-554-813-41	SWITCH, KEY BOARD (SEEK +)				
S858	1-554-813-41	SWITCH, KEY BOARD (SEEK -)				
S859	1-554-813-41	SWITCH, KEY BOARD (MANU +)				
S860	1-554-813-41	SWITCH, KEY BOARD (MANU -)				
S861	1-554-813-41	SWITCH, KEY BOARD (FM/AM)				
S863	1-554-813-41	SWITCH, KEY BOARD (SENS)				
S864	1-554-813-41	SWITCH, KEY BOARD (DISPL)				
**********						
*	A-3295-165-A	LAMP BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
* CNJ701	1-566-673-11	SOCKET, CONNECTOR 4P				
		< PILOT LAMP >				
PL761	1-518-694-41	LAMP, PILOT				
PL762	1-518-694-41	LAMP, PILOT				
		< RESISTOR >				
R761	1-249-407-11	CARBON	150	5%	1/4W	F
R762	1-249-407-11	CARBON	150	5%	1/4W	F
R763	1-249-407-11	CARBON	150	5%	1/4W	F
R764	1-249-407-11	CARBON	150	5%	1/4W	F
**********						
*	A-3295-163-A	MAIN BOARD, COMPLETE				
		**********				
*	3-381-994-01	COVER (LAMP)				
		< CAPACITOR >				
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C3	1-163-161-00	CERAMIC CHIP	15PF	5%	50V	
C4	1-124-589-11	ELECT	47uF	20%	16V	
C5	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C7	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C8	1-126-157-11	ELECT	10uF	20%	16V	
C9	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C10	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C11	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C12	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C13	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C14	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C15	1-126-161-11	ELECT	2.2uF	20%	35V	
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C17	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C18	1-163-237-11	CERAMIC CHIP	27PF	5%	50V	
C19	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C20	1-124-229-00	ELECT	33uF	20%	10V	
C21	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C22	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C24	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C25	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C26	1-131-377-00	TANTALUM	10uF	10%	10V	
C27	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C28	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C29	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C30	1-124-229-00	ELECT	33uF	20%	10V	
C31	1-126-159-11	ELECT	0.47uF	20%	50V	
C32	1-126-301-11	ELECT	1uF	20%	50V	
C33	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C34	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C35	1-126-157-11	ELECT	10uF	20%	16V	
C36	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C37	1-136-162-00	FILM	0.056uF	5%	50V	
C38	1-126-301-11	ELECT	1uF	20%	50V	
C39	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C40	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C41	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C42	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C43	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C44	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C101	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C102	1-126-301-11	ELECT	1uF	20%	50V	
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C104	1-136-171-00	FILM	0.033uF	5%	50V	
C105	1-124-584-00	ELECT	100uF	20%	10V	
C111	1-126-162-11	ELECT	3.3uF	20%	50V	
C112	1-126-162-11	ELECT	3.3uF	20%	50V	
C113	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C114	1-126-163-11	ELECT	4.7uF	20%	50V	
C115	1-126-163-11	ELECT	4.7uF	20%	50V	
C121	1-126-162-11	ELECT	3.3uF	20%	50V	
C151	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C201	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C202	1-126-301-11	ELECT	1uF	20%	50V	
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C204	1-136-171-00	FILM	0.033uF	5%	50V	
C205	1-124-584-00	ELECT	100uF	20%	10V	
C211	1-126-162-11	ELECT	3.3uF	20%	50V	
C212	1-126-162-11	ELECT	3.3uF	20%	50V	
C213	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C214	1-126-163-11	ELECT	4.7uF	20%	50V	
C215	1-126-163-11	ELECT	4.7uF	20%	50V	
C221	1-126-162-11	ELECT	3.3uF	20%	50V	

Ref. No.	Part No.	Description			Remark
C251	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C301	1-124-589-11	ELECT	47uF	20%	16V
C311	1-124-589-11	ELECT	47uF	20%	16V
C321	1-126-161-11	ELECT	2.2uF	20%	35V
C351	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C352	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C353	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C354	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C356	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C401	1-126-934-11	ELECT	220uF	20%	16V
C421	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C422	1-126-157-11	ELECT	10uF	20%	16V
C423	1-124-584-00	ELECT	100uF	20%	10V
C424	1-124-584-00	ELECT	100uF	20%	10V
C425	1-126-157-11	ELECT	10uF	20%	16V
C431	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C432	1-164-346-11	CERAMIC CHIP	1uF		16V
C441	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C442	1-124-589-11	ELECT	47uF	20%	16V
C443	1-126-934-11	ELECT	220uF	20%	16V
C444	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C445	1-126-163-11	ELECT	4.7uF	20%	50V
C446	1-126-162-11	ELECT	3.3uF	20%	50V
C701	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C702	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C703	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C704	1-126-916-11	ELECT	1000uF	20%	6.3V
C705	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C706	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C707	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C708	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C751	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C752	1-126-163-11	ELECT	4.7uF	20%	50V
C753	1-126-163-11	ELECT	4.7uF	20%	50V
C754	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V

< FILTER >

CF11	1-579-554-21	FILTER, CERAMIC

< CONNECTOR >

CNP401	1-695-268-11	PIN, CONNECTOR (PC BOARD) 12P
* CNP601	1-506-743-11	PIN, CONNECTOR 5P
* CNP602	1-568-714-11	PIN, CONNECTOR 7P
* CNP603	1-691-546-11	SOCKET, CONNECTOR (PC BOARD) 6P
* CNP701	1-566-672-11	PIN, CONNECTOR 4P
* CNP801	1-568-453-11	PIN, CONNECTOR (PC BOARD) 4P
* CNP802	1-568-453-11	PIN, CONNECTOR (PC BOARD) 4P
* CNP803	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P

Ref. No.	Part No.	Description		Remark

< DIODE >

D1	8-719-110-49	DIODE	RD18ES-B2
D2	8-719-110-49	DIODE	RD18ES-B2
D3	8-719-911-19	DIODE	1SS119
D4	8-719-911-19	DIODE	1SS119
D5	8-719-911-19	DIODE	1SS119
D6	8-719-911-19	DIODE	1SS119
D11	8-719-911-19	DIODE	1SS119
D12	8-719-911-19	DIODE	1SS119
D13	8-719-911-19	DIODE	1SS119
D14	8-719-911-19	DIODE	1SS119
D101	8-719-911-19	DIODE	1SS119
D201	8-719-911-19	DIODE	1SS119
D401	8-719-911-19	DIODE	1SS119
D402	8-719-110-13	DIODE	RD9.1ES-B2
D421	8-719-109-89	DIODE	RD5.6ES-B2
D422	8-719-921-74	DIODE	MTZN-10A
D423	8-719-911-19	DIODE	1SS119
D431	8-719-911-19	DIODE	1SS119
D432	8-719-911-19	DIODE	1SS119
D433	8-719-109-85	DIODE	RD5.1ES-B2
D441	8-719-911-19	DIODE	1SS119
D442	8-719-911-19	DIODE	1SS119
D443	8-719-911-19	DIODE	1SS119
D444	8-719-110-13	DIODE	RD9.1ES-B2
D445	8-719-911-19	DIODE	1SS119
D446	8-719-911-19	DIODE	1SS119
D651	8-719-200-82	DIODE	11ES2
D652	8-719-200-82	DIODE	11ES2
D653	8-719-200-82	DIODE	11ES2
D701	8-719-911-19	DIODE	1SS119
D702	8-719-911-19	DIODE	1SS119
D704	8-719-911-19	DIODE	1SS119
D705	8-719-911-19	DIODE	1SS119
D706	8-719-911-19	DIODE	1SS119
D707	8-719-911-19	DIODE	1SS119
D708	8-719-911-19	DIODE	1SS119
D709	8-719-911-19	DIODE	1SS119
D710	8-719-911-19	DIODE	1SS119
D711	8-719-911-19	DIODE	1SS119
D712	8-719-911-19	DIODE	1SS119
D713	8-719-911-19	DIODE	1SS119
D714	8-719-911-19	DIODE	1SS119
D715	8-719-911-19	DIODE	1SS119
D716	8-719-911-19	DIODE	1SS119
D717	8-719-911-19	DIODE	1SS119
D718	8-719-911-19	DIODE	1SS119
D720	8-719-911-19	DIODE	1SS119

MAIN

Ref. No.	Part No.	Description			Remark
		< IC >			
IC11	8-759-246-22	IC TA8172AF			
IC301	8-759-046-31	IC BA328F			
IC311	8-759-909-71	IC BA4558F			
IC701	8-759-079-34	IC uPD1723GF-628-3BE			
		< CONNECTOR >			
J1	1-691-512-21	SOCKET, CONNECTOR (ANT)			
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W
JR5	1-216-295-00	METAL CHIP	0	5%	1/10W
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W
JR9	1-216-295-00	METAL CHIP	0	5%	1/10W
JR10	1-216-295-00	METAL CHIP	0	5%	1/10W
JR11	1-216-295-00	METAL CHIP	0	5%	1/10W
JR12	1-216-295-00	METAL CHIP	0	5%	1/10W
JR13	1-216-295-00	METAL CHIP	0	5%	1/10W
JR101	1-216-296-00	METAL CHIP	0	5%	1/8W
JR102	1-216-296-00	METAL CHIP	0	5%	1/8W
JR103	1-216-296-00	METAL CHIP	0	5%	1/8W
JR104	1-216-296-00	METAL CHIP	0	5%	1/8W
JR105	1-216-296-00	METAL CHIP	0	5%	1/8W
JR106	1-216-296-00	METAL CHIP	0	5%	1/8W
JR107	1-216-296-00	METAL CHIP	0	5%	1/8W
JR108	1-216-296-00	METAL CHIP	0	5%	1/8W
JR109	1-216-296-00	METAL CHIP	0	5%	1/8W
		< COIL >			
L1	1-410-316-11	INDUCTOR	1uH		
L2	1-410-324-11	INDUCTOR	4.7uH		
L3	1-410-513-11	INDUCTOR	22uH		
L4	1-410-184-51	INDUCTOR CHIP	0.22uH		
L11	1-410-501-11	INDUCTOR	2.2uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD701	1-809-758-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q1	8-729-920-08	TRANSISTOR	DTC124TK		
Q111	8-729-100-66	TRANSISTOR	2SC1623		
Q121	8-729-100-66	TRANSISTOR	2SC1623		
Q122	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q151	8-729-920-08	TRANSISTOR	DTC124TK		
Q211	8-729-100-66	TRANSISTOR	2SC1623		
Q221	8-729-100-66	TRANSISTOR	2SC1623		
Q222	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q251	8-729-920-08	TRANSISTOR	DTC124TK		
Q401	8-729-920-85	TRANSISTOR	2SD1664-QR		
Q404	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q405	8-729-205-02	TRANSISTOR	2SA1150-Y		
Q406	8-729-920-08	TRANSISTOR	DTC124TK		
Q407	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q408	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q409	8-729-920-08	TRANSISTOR	DTC124TK		
Q421	8-729-967-32	TRANSISTOR	2SC2673-Q		
Q422	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q431	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q432	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q441	8-729-920-08	TRANSISTOR	DTC124TK		
Q501	8-729-988-13	TRANSISTOR	2SA881-R		
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q701	8-729-100-66	TRANSISTOR	2SC1623		
Q702	8-729-100-66	TRANSISTOR	2SC1623		
Q703	8-729-100-66	TRANSISTOR	2SC1623		
Q751	8-729-016-76	TRANSISTOR	2SC2412KLN-E		
Q752	8-729-016-76	TRANSISTOR	2SC2412KLN-E		
		< RESISTOR >			
R1	1-216-154-00	METAL GLAZE	15	5%	1/8W
R2	1-216-041-00	METAL CHIP	470	5%	1/10W
R3	1-216-216-00	METAL GLAZE	5.6K	5%	1/8W
R4	1-216-005-00	METAL CHIP	15	5%	1/10W
R5	1-216-079-00	METAL CHIP	18K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-174-00	METAL GLAZE	100	5%	1/8W
R8	1-216-091-00	METAL CHIP	56K	5%	1/10W
R9	1-216-097-00	METAL CHIP	100K	5%	1/10W
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W
R11	1-216-039-00	METAL CHIP	390	5%	1/10W
R12	1-216-073-00	METAL CHIP	10K	5%	1/10W
R13	1-216-090-00	METAL CHIP	51K	5%	1/10W
R14	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R15	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R16	1-216-046-00	METAL CHIP	750	5%	1/10W
R17	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R18	1-249-395-11	CARBON	15	5%	1/4W F
R19	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R20	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R21	1-216-077-00	METAL CHIP	15K	5%	1/10W
R22	1-216-005-00	METAL CHIP	15	5%	1/10W
R25	1-216-081-00	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R26	1-216-073-00	METAL CHIP	10K	5%	1/10W
R28	1-216-077-00	METAL CHIP	15K	5%	1/10W
R29	1-216-073-00	METAL CHIP	10K	5%	1/10W
R30	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R31	1-216-077-00	METAL CHIP	15K	5%	1/10W
R32	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R33	1-216-085-00	METAL CHIP	33K	5%	1/10W
R34	1-216-085-00	METAL CHIP	33K	5%	1/10W
R35	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R36	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R37	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R38	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
R102	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R103	1-216-015-00	METAL CHIP	39	5%	1/10W
R104	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R105	1-216-091-00	METAL CHIP	56K	5%	1/10W
R111	1-216-085-00	METAL CHIP	33K	5%	1/10W
R112	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R113	1-216-097-00	METAL CHIP	100K	5%	1/10W
R114	1-216-246-00	METAL GLAZE	100K	5%	1/8W
R115	1-216-097-00	METAL CHIP	100K	5%	1/10W
R116	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R117	1-216-097-00	METAL CHIP	100K	5%	1/10W
R121	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R122	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R123	1-216-097-00	METAL CHIP	100K	5%	1/10W
R124	1-216-097-00	METAL CHIP	100K	5%	1/10W
R125	1-216-073-00	METAL CHIP	10K	5%	1/10W
R126	1-216-085-00	METAL CHIP	33K	5%	1/10W
R151	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R152	1-216-109-00	METAL CHIP	330K	5%	1/10W
R201	1-216-097-00	METAL CHIP	100K	5%	1/10W
R202	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R203	1-216-015-00	METAL CHIP	39	5%	1/10W
R204	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R205	1-216-091-00	METAL CHIP	56K	5%	1/10W
R211	1-216-085-00	METAL CHIP	33K	5%	1/10W
R212	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R213	1-216-097-00	METAL CHIP	100K	5%	1/10W
R214	1-216-097-00	METAL CHIP	100K	5%	1/10W
R215	1-216-097-00	METAL CHIP	100K	5%	1/10W
R216	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R217	1-216-097-00	METAL CHIP	100K	5%	1/10W
R221	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R222	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R223	1-216-097-00	METAL CHIP	100K	5%	1/10W
R224	1-216-097-00	METAL CHIP	100K	5%	1/10W
R225	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R226	1-216-085-00	METAL CHIP	33K	5%	1/10W
R251	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R252	1-216-109-00	METAL CHIP	330K	5%	1/10W
R301	1-249-395-11	CARBON	15	5%	1/4W F
R311	1-249-395-11	CARBON	15	5%	1/4W F
R321	1-249-395-11	CARBON	15	5%	1/4W F
R351	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-049-00	METAL CHIP	1K	5%	1/10W
R405	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R406	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R407	1-216-081-00	METAL CHIP	22K	5%	1/10W
R408	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R409	1-216-081-00	METAL CHIP	22K	5%	1/10W
R410	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R421	1-249-393-11	CARBON	10	5%	1/4W F
R422	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R423	1-216-049-00	METAL CHIP	1K	5%	1/10W
R431	1-216-029-00	METAL CHIP	150	5%	1/10W
R432	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R433	1-216-077-00	METAL CHIP	15K	5%	1/10W
R434	1-216-079-00	METAL CHIP	18K	5%	1/10W
R435	1-216-085-00	METAL CHIP	33K	5%	1/10W
R436	1-216-079-00	METAL CHIP	18K	5%	1/10W
R437	1-216-073-00	METAL CHIP	10K	5%	1/10W
R438	1-216-073-00	METAL CHIP	10K	5%	1/10W
R441	1-216-073-00	METAL CHIP	10K	5%	1/10W
R442	1-216-073-00	METAL CHIP	10K	5%	1/10W
R443	1-216-089-00	METAL CHIP	47K	5%	1/10W
R444	1-216-083-00	METAL CHIP	27K	5%	1/10W
R445	1-216-049-00	METAL CHIP	1K	5%	1/10W
R446	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R450	1-249-389-11	CARBON	4.7	5%	1/4W F
R451	1-249-389-11	CARBON	4.7	5%	1/4W F
R501	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R502	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R503	1-216-081-00	METAL CHIP	22K	5%	1/10W
R641	1-249-416-11	CARBON	820	5%	1/4W F
R642	1-249-425-11	CARBON	4.7K	5%	1/4W F
R701	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R702	1-249-438-11	CARBON	56K	5%	1/4W
R703	1-216-089-00	METAL CHIP	47K	5%	1/10W
R704	1-216-254-00	METAL GLAZE	220K	5%	1/8W
R705	1-216-254-00	METAL GLAZE	220K	5%	1/8W
R706	1-216-254-00	METAL GLAZE	220K	5%	1/8W
R707	1-216-089-00	METAL CHIP	47K	5%	1/10W
R708	1-216-089-00	METAL CHIP	47K	5%	1/10W
R709	1-216-089-00	METAL CHIP	47K	5%	1/10W
R710	1-216-089-00	METAL CHIP	47K	5%	1/10W
R711	1-216-089-00	METAL CHIP	47K	5%	1/10W

MAIN POWER

Ref. No.	Part No.	Description			Remark
R751	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R755	1-216-049-00	METAL CHIP	1K	5%	1/10W
R756	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R757	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV1	1-238-600-11	RES, ADJ, CARBON 10K			
RV11	1-238-600-11	RES, ADJ, CARBON 10K			
RV311	1-241-997-11	RES, VAR, CARBON 80X2/100KX3 (VOL/FAD)			
		< SWITCH >			
SW701	1-553-510-00	SWITCH, SLIDE (9K/10K)			
		< TRANSFORMER >			
T11	1-404-955-11	TRANSFORMER, IF			
		< TUNER >			
TU1	1-693-000-11	TUNER UNIT (FM/AM)			
		< VIBRATOR >			
X11	1-579-278-11	VIBLATOR, CERAMIC (456kHz)			
X701	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz)			
**********					
*	A-3295-160-A	POWER BOARD, COMPLETE			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C601	1-102-106-00	CERAMIC	100PF	10%	50V
C602	1-101-005-00	CERAMIC	22000PF		50V
C603	1-102-106-00	CERAMIC	100PF	10%	50V
C604	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C607	1-126-597-11	ELECT	2200uF	20%	16V
C608	1-126-597-11	ELECT	2200uF	20%	16V
C611	1-126-161-11	ELECT	2.2uF	20%	35V
C612	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C613	1-128-054-11	ELECT	22uF	20%	10V
C614	1-136-170-00	FILM	0.27uF	5%	50V
C615	1-136-170-00	FILM	0.27uF	5%	50V
C621	1-126-161-11	ELECT	2.2uF	20%	35V
C622	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C623	1-128-054-11	ELECT	22uF	20%	10V
C624	1-136-170-00	FILM	0.27uF	5%	50V
C625	1-136-170-00	FILM	0.27uF	5%	50V
C631	1-124-584-00	ELECT	100uF	20%	10V
C632	1-126-163-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CNJ601	1-563-257-11	SOCKET, CONNECTOR 5P			
* CNJ602	1-568-715-11	SOCKET, CONNECTOR 7P			
* CNJ603	1-691-545-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP611	1-695-244-11	PLUG, CINNECTOR 15P			
		< DIODE >			
D631	8-719-109-85	DIODE	RD5.1ES-B2		
D632	8-719-109-85	DIODE	RD5.1ES-B2		
D654	8-719-200-82	DIODE	11ES2		
D655	8-719-200-82	DIODE	11ES2		
D661	8-719-821-35	DIODE	1GWJ42		
D662	8-719-821-35	DIODE	1GWJ42		
D663	8-719-821-35	DIODE	1GWJ42		
D664	8-719-821-35	DIODE	1GWJ42		
		< IC >			
IC631	8-759-243-27	IC	TA8215H		
		< TRANSISTOR >			
Q631	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q632	8-729-820-46	TRANSISTOR	2SB1202FAS		
Q633	8-729-100-66	TRANSISTOR	2SC1623		
		< RESISTOR >			
R611	1-249-420-11	CARBON	1.8K	5%	1/4W F
R612	1-216-037-00	METAL CHIP	330	5%	1/10W
R613	1-249-383-11	CARBON	1.5	5%	1/6W F
R614	1-249-383-11	CARBON	1.5	5%	1/6W F
R621	1-249-420-11	CARBON	1.8K	5%	1/4W F
R622	1-216-037-00	METAL CHIP	330	5%	1/10W
R623	1-249-383-11	CARBON	1.5	5%	1/6W F
R624	1-249-383-11	CARBON	1.5	5%	1/6W F
R631	1-216-097-00	METAL CHIP	100K	5%	1/10W
R632	1-216-091-00	METAL CHIP	56K	5%	1/10W
R633	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R634	1-216-049-00	METAL CHIP	1K	5%	1/10W
R635	1-249-415-11	CARBON	680	5%	1/4W F
R636	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R637	1-216-190-00	METAL GLAZE	470	5%	1/8W
R638	1-216-190-00	METAL GLAZE	470	5%	1/8W
R639	1-216-073-00	METAL CHIP	10K	5%	1/10W
R640	1-249-420-11	CARBON	1.8K	5%	1/4W F
		< THERMISTOR(POSITIVE) >			
THP601	1-809-148-11	THERMISTOR, POSITIVE			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
F901	1-532-508-11	FUSE (8A)	
F902	1-532-360-XX	FUSE (1A)	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3364-496-1	MOTOR ASSY	
S901	1-692-036-11	SWITCH, SLIDE (REV/FWD)	
S903	1-692-065-11	SWITCH, LEAF (TAPE/MUTE)	
S904	1-554-790-21	SWITCH, POWER (POWER/MUTE)	

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ACCESSORIES & PACKING MATERIALS
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	1-696-375-11	CORD (WITH CONNECTOR)	
*	3-384-231-01	CUSHION (UPPER)	
*	3-384-232-01	CUSHION (LOWER)	
*	3-384-233-01	INDIVIDUAL CARTON	
	3-755-739-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH, CHINESE)	
	3-755-740-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)	

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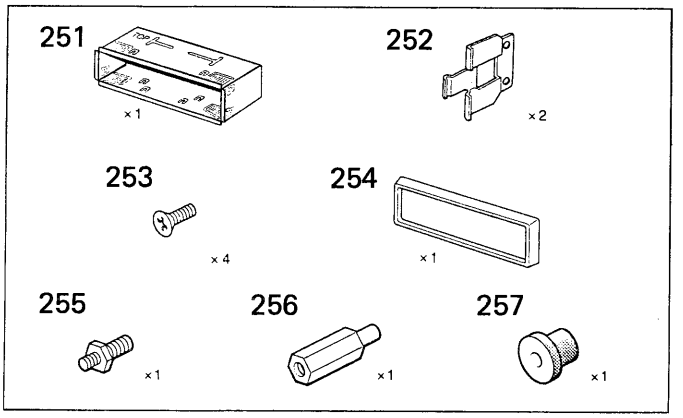
****
HARDWARE LIST
****

#1	7-627-553-88	SCREW, PRECISION +P 2X7
#2	7-621-773-86	SCREW +P 2.6X4
#3	7-685-133-19	SCREW +P 2.6X6 TYPE2
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#5	7-621-770-XX	SCREW +PTT 2.6X8 (S)
#6	7-621-255-25	SCREW +PTT 2X4 (S)
#7	7-624-102-04	STOP RING 1.5, TYPE -E
#8	7-624-104-04	STOP RING 2.0, TYPE -E
#9	7-624-118-01	RING, RETAINING E-2.5
#10	7-627-553-48	SCREW, PRECISION +P 2X4
#11	7-621-770-67	SCREW +PTT 2.6X6 (S)
#12	7-621-555-10	SCREW +K 2X3
#13	7-621-255-15	SCREW +P 2X3
#14	7-621-591-00	SCREW +K 2X4

• MOUNTING HARDWARE



Ref. No.	Part No.	Description	Remark
251	X-3364-955-1	FRAME ASSY, FITTING	
252	3-339-403-01	SPRING	
253	3-329-814-01	SCREW (M4X6), SPECIAL PAN (+)	
* 254	3-383-176-01	COLLAR	
255	3-323-209-01	BOLT (4-5), STUD	
256	3-323-210-01	ADJUSTOR, STUD BOLT	
257	3-349-410-01	BUSHING	

9-957-363-11

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